ATLAS GOLDEN AGE

systems for walls damp proofing and drying

SYSTEMS FOR WALLS DAMP PROOFING AND DRYING

SUBSTRATE PREPARATION → **DAMP PROOFING** → **PLASTER RESTORATION SYSTEM**

USE AND PROPERTIES

- liquid silicification preparation of deep – seated action
- for use in conservatory works in heritage buildings as well as in contemporary construction
- used for waterproofing and refurbishment of buildings at plinth zone as well as foundations and basements, indoors and outdoors, in case of lack or faulty horizontal and/or vertical damp proofing
- can be used for surface as well as structural strengthening
- for execution of horizontal watertight membrane preventing the substrate material from capillary water rising
- for use with gravity or low – pressure injection method
- recommended for absorptive, porous mineral substrates, made of brick or stone, of dampness up to 80% and low or average salinity level (other cases require initial wall drying in the planned injection zone and desalination actions)
- very high substrate penetration abilities – the preparation has low viscosity and low molecular weight construction, therefore quickly fills the substrate material pores
- forms membrane within whole wall cross section without surface sealing – keeps the substrate vapour permeability and ability of free evaporation
- strengthens the substrate material – by gel accumulation in the pores during the process of silicification
- can be used as a priming preparation for substrate priming before the use of mineral mortars forming surface waterproofing

RANGE OF USE

- reconstruction of horizontal damp proofing with the injection method from outdoors, without excavation - on external foundation or basement walls, partly earth - sheltered
- reconstruction of horizontal damp proofing with the injection method from indoors, with damp proofing plaster application – on basement walls partly or full earth – sheltered and partition walls indoors
- reconstruction of horizontal damp proofing with the injection method from indoors, with application of tub – shaped damp proofing – on basement walls partly or full earth – sheltered and partition walls indoors
- reconstruction of horizontal damp proofing with the injection method from outdoors, with foundation excavation and execution of new vertical insulation in mineral or bitumen system – external walls, basement walls, partly or fully earth – sheltered

SUBSTRATE PREPARATION

The method of substrate preparation should be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. Damp and saline plasters should be removed up to the height of approx. 80 cm above the highest visible salinity and/or dampness line. Clean the surface of dust, saline efflorescence, mortar residues and poorly bonded wall elements. If need to neutralize the construction salts, use PREPARATION FOR SALT NEUTRALISATION PS, according to its technical data sheet. Carve out the masonry mortar from joints up to depth of 20 mm and re-fill with cement mortar, e.g. MORTAR FOR FILLING CAVITIES IN BRICK AND NATURAL STONE CG, without wall facing. Before injection, cracks, gaps and empty spaces should be filled with cement mortar, e.g. RENOVATION BASE COAT PLASTER TRP (it is advisable to drill sample holes in order to determine wall construction and structure).

APPLICATION

The technology of works during injection and reconstruction of horizontal damp proofing depends on planned technical solution (range of use), current groundwater conditions, wall thickness, substrate dampness and salinity level.

Recommendations for holes drilling

Holes intended for the introduction of SILICIFICATION PREPARATION KS into the wall structure should be 10 - 30 mm in diameter and executed in one row, with axial spacing 10 - 12.5 cm. Holes should keep a slope of approx. 25°, in case of thin walls the slope angle can be slightly larger, in case of thicker walls the angle should be smaller. The thickness of drilling should be chosen in order to make holes approx. 5 cm shallower than the total wall thickness. In case of very thick walls (> 60 cm) it is advisable to drill holes alternately, in both wall sides.

1. **Reconstruction of horizontal damp proofing with the injection method from outdoors, without excavation.**
   - Partition type: external walls, foundation or basement walls, partly earth – sheltered
   - Water conditions: groundwater table below the foundation level, not – dumping groundwater (infiltration), pressure – less, capillary dampness
   - Drill injection holes from outdoors, above the ground level. Clean the holes of dust with compressed air. Directly before the injection, wet the substrate with water and execute initial silicification with KS preparation diluted with water in ratio 1:1. In case of weathered walls of low strength waterproofing, apply additional coat made of ATLAS WODER S mortar within the planned injection site in order to limit the possibility of uncontrolled leakage of the injection preparation beside the walls. Pressure – less injection (gravity) should be executed with funnels providing constant and steady substrate impregnation. Stop application after full impregnation of wall within each drilled hole. In case of pressure injection, place injectors in the holes and inject the preparation with constant pressure of 4 - 8 bars. After injection, float the holes with cement mortar, e.g. RENOVATION BASE COAT PLASTER TRP. Depending on wall salinity, one should apply renovation plasters ATLAS GOLDEN AGE upon external plinth walls and internal basement walls. Depending on the expected aesthetic effect the plaster surface can be finished with a properly chosen conservatory finishing coat or Silicate Renovation Paint S-02.
2. **Reconstruction of horizontal damp proofing with the injection method from outdoors, without excavation, with the use of the damp proofing plaster HYDROTYNK U.**
   - Partition type: external walls, foundation or basement walls, partly earth – sheltered
   - Water conditions: groundwater table above the foundation level, groundwater temporarily dumping (infiltration), pressure – less
   - Execute the injection as described in point 1. Due to water conditions it is advisable to apply coat of DAMP PROOFING PLASTER HYDROTYNK U upon basement walls. It is recommended to apply the plaster in coats of thickness approx. 10 mm, depending on substrate dampness level. For walls slightly damp, one – two plaster coats are sufficient, for walls intensively damp it is advisable to use minimum three plaster coats. It is recommended to execute a plaster cove made of DAMP PROOFING PLASTER HYDROTYNK U upon wall corners and wall – floor joint edges. If needed, the damp proofing plaster can be used in combination with the coat made of two – component waterproofing membrane ATLAS WODER DUO executed upon the floor.
3. **Reconstruction of horizontal damp proofing with the injection method from outdoors, without execution, with the application of tub – shaped damp proofing made of two – component waterproofing membrane ATLAS WODER DUO.**
   - Partition type: external walls, foundation or basement walls, partly earth – sheltered
   - Water conditions: groundwater table above the foundation level, groundwater temporarily dumping (infiltration), pressure – less
   - Execute the injection as described in point 1. Due to water conditions and possible high wall dampness level it is advisable to execute upon basement walls (and floor) the tub – shaped damp proofing made of mineral two – component waterproofing membrane ATLAS WODER DUO – in two coats, keeping 3 – hour break between the coats application. ATLAS WODER DUO must be applied upon properly even substrate, in case of large wall unevenness it is recommended to apply base coat made of ATLAS GOLDEN AGE TRO. It is recommended to execute a plaster cove made of DAMP PROOFING PLASTER HYDROTYNK U upon wall corners and wall – floor joint edges. Depending on wall salinity, one should apply renovation plasters ATLAS GOLDEN AGE upon properly stabilized membrane. Depending on the expected aesthetic effect the plaster surface can be finished with a properly chosen conservatory finishing coat or Silicate Renovation Paint S-02.

4. **Reconstruction of horizontal damp proofing with the injection method from outdoors, with the foundation excavation and execution of new vertical damp proofing with mineral system.**
   - The injection is executed from the outdoors, drill holes above the strip foundation or from the indoors – in both cases the membrane should be above the basement floor level. In case of very thick walls (> 60 cm) it is advisable to drill holes alternately, in both wall sides. Apply SILICIFICATION PREPARATION KS as described in point 1. Upon foundation walls from outdoors, apply the waterproofing coat made of mineral watertight mortar ATLAS WODER S or two – component waterproofing membrane ATLAS WODER DUO, in minimum 3 coats. Protect the applied waterproofing coat against mechanical damage with dimpled membrane or extruded polystyrene XPS boards of thickness 2 cm, covered with a layer of 0.2 mm building foil. Apply XPS boards with cement adhesive ATLAS STOPTER K-20. Fill the excavation with filtration backfill and execute the sea bank made of sett around the building.
5. **Reconstruction of horizontal damp proofing with the injection method from outdoors, with the foundation excavation and execution of new vertical damp proofing with bitumen system (water – based, solvent – free).**
   - The injection is executed from the outdoors, drill holes above the strip foundation or from the indoors – in both cases the membrane should be above the basement floor level. In case of very thick walls (> 60 cm) it is advisable to drill holes alternately, in both wall sides. After silicification, prime the whole surface of excavated foundation walls with KS preparation diluted with water in ratio 1:1 and apply a coat of mineral watertight mortar ATLAS WODER S. Then, apply the waterproofing coat made of dispersion, thick – coat asphalt – rubber mass Izohan IZOBUD WM or Izohan IZOBUD WM 2K, of thickness 2 – 4 mm, depending on the water pressure. Protect the applied waterproofing coat against mechanical damage with dimpled membrane or extruded polystyrene XPS boards of thickness 2 cm, covered with a layer of 0.2 mm building foil. Apply XPS boards with adhesive Izohan EKOLEP. Fill the excavation with filtration backfill and execute the sea bank made of sett around the building.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- Decision on the choice of technological and material solutions during waterproofing reconstruction should be made after evaluation of groundwater conditions, type of construction material of walls adjoining the ground, dampness, salinity level and foundations technical state as well as other aspects crucial for a particular object.
- The injection should be executed properly long in order to form continuous waterproofing coat within the whole wall width.
- During the foundation excavation and reconstruction of vertical damp proofing, follow the safety regulations on partial foundation excavation.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The product must be transported and stored in tightly sealed packages, in dry conditions, in positive temperature (most preferably on pallets). Avoid direct sunshine.
- Causes skin irritation. Causes serious eye damage. Wash face, eyes and hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water with soap. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER/doctor.
- Detailed information on hazards and safe use conditions, ecological aspects and recommendations for transport and storage are listed in the Safety Data Sheet.

TECHNICAL DATA

ATLAS ZŁOTY WIEK KS is an aqueous solution of potassium silicate, potassium methyl siliconate and modifying additives.

Density	1.20 g/cm³
Substrate strengthening (depending on substrate material, its humidity and external conditions)	up to 60% (5.0 – 6.0 N/mm²)
pH	11 - 13
Colour	yellow
Consumption (depending on substrate absorptiveness and partition dampness)	approx. 0.4 kg for each filled hole in a wall 50 cm thick approx. 0.1 kg/m² for silicification priming
Substrate and ambient temperature during work and drying	from +5°C to +25°C
Packaging	plastic containers 5 kg, 10 kg, 30 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-02-12

USE AND PROPERTIES

- specialist, mineral plaster based on hydraulic binder
- for execution of barrier plasters on damp and saline substrates of brick, natural stone and concrete surfaces
- forms watertight coat blocking capillary rising of damp and its transfer indoors
- recommended for heritage sites, foundations, basement walls and building plinth zones in places where walls adjoin the ground directly
- particularly useful when reconstruction of vertical wall damp proofing is difficult or impossible due to technical or organizational reasons (walls adjoining terraces, frontage line buildings, etc.)
- can be used in contemporary construction, for execution of plasters on plinths, retaining walls and fencing, particularly at floodplains or areas at risk of flood
- protects walls construction material against splash water
- forms coat resistant to water pressure of 0.2 bars
- vapour permeable – allows free humidity evaporation and substrate drying
- resistant to sulfates – does not require salts content evaluation, ensures proper bonding to damp and saline surfaces
- high mechanical strength

RANGE OF USE

- indoors and outdoors in case of lack of or faulty horizontal and/or vertical damp proofing
- as an alternative solution for tub-shaped damp proofing with the use of one-component mineral waterproofing mortars and renovation plasters
- partly earth – sheltered, external foundation or basement walls - it is recommended to execute damp proofing membrane made of SILICIFICATION PREPARATION KS above the ground level, from indoors or outdoors
- fully earth – sheltered foundation and basement walls or those forming partitions adjoining neighboring buildings or other rooms - it is recommended to execute damp proofing membrane made of SILICIFICATION PREPARATION KS at floor level as well as in the zone just below the room ceiling
- on external walls, at plinth zone, on retaining walls and fencing, for execution of wall protective coat against rainwater and splash water action
- damp proofing plasters, due to their action characteristics, should not be used beyond the ground floors and foundation walls as well as in case of pressurised water action

SUBSTRATE PREPARATION

The method of substrate preparation should be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. Plasters/renders of low strength, poorly bonded or loosening should be removed, carve out the masonry mortar from joints up to depth of 20 mm. Then, clean the exposed surface from dust, efflorescence, mortar residues and poorly bonded wall elements. Fill the cleaned joints and wall defects with MORTAR FOR FILLING CAVITIES IN BRICK AND NATURAL STONE CG. Visible saline efflorescence should be mechanically removed by cleaning, PREPARATION FOR SALT NEUTRALISATION PS can be used, if needed. It is also necessary to remove any biological contamination. In order to do that, contaminated sites should be cleaned of visible deposits with a brush or a pressure washer, use ATLAS MYKOS preparation then. The preparation should be applied at least three times in order to neutralize the contamination in different stages of development. If needed, use SILICATE STREGTHENING PREPARATION KPW upon the whole surface in order to strengthen the substrate before plastering. After full substrate preparation, in case of concrete substrates or small – size lime – sand elements plastering, it is advisable to apply base coat made of ATLAS GOLDEN AGE TRO.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with a suitable amount of water and mixing mechanically until homogenous, free from lumps and separating liquid. Recommended ratio: 5.00 liters of water to 25 kg of the dry mix. The mortar can be used up within approx. 60 minutes, it should be re-mixed from time to time. Apply the plaster with even coat, manually, by throwing with a trowel, upon appropriately prepared substrate. It is recommended to apply the plaster in coats approx. 10 mm thick, depending on substrate dampness level. For walls slightly damp, one – two plaster coats are sufficient, for walls intensively damp it is advisable to use minimum three plaster coats. It is recommended to execute a plaster cove made of DAMP PROOFING PLASTER HYDROTYNK U, upon wall corners and wall – floor joint edges. When applying the plaster outdoors, after execution of each intermediate coat, it is advisable to float its surface rough. The final coat can be slightly floated, but without surface felting. Provide proper room ventilation during the plaster drying. Protect plasters applied outdoors from drying too fast, wet them with water within 5 up to 7 days since application, if needed.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions.
- Irritant – contains cement. Risk of serious damage to the eyes. Can trigger allergic reaction on contact with skin. Keep out of the reach of children. Do not inhale the dust. Rinse contaminated eyes with large amounts of water and seek doctor's assistance. Wear appropriate protective clothing, protective gloves and goggles or face protection. In case of ingestion immediately seek medical advice – show the packaging or label.
- Detailed information on hazards and safe use conditions, ecological aspects and recommendations for transport and storage are listed in the Safety Data Sheet.

TECHNICAL DATA

DAMP PROOFING PLASTER HYDROTYNK U is a factory made dry mix manufactured on the basis of hydraulic binder, quartz fillers and additives providing water tightness and waterproofness.

Mixing ratio: water/dry mix	5.0 l/25 kg
Pot life	approx. 1 hour
Consumption	approx. 1.7 – 1.8 kg for 1 m² with 1 mm coat thickness
Minimum coat thickness	10 mm
Maximum coat thickness	30 mm (up to 50 mm at points)
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

TECHNICAL REQUIREMENTS

CE 14 Declaration of Performance no. AZW HTU/CPR PN-EN 998-1:2012 (EN 998-1:2010)	
Factory made plastering mortar of specified properties, general-purpose (GP), for manual application. For indoor and outdoor use, for walls, ceilings, posts and partition walls.	
Reaction to fire - class	A1
Water absorption - category	W1
Adhesion, FP:B	≥ 0.3 N/mm²
Water vapour permeability coefficient (tabular value), μ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mK ($\lambda_{10, dry}$) (EN 1745:2002, table A.12)
Durability. Compressive strength decrease after 25 freeze-thaw cycles	≤ 15 %
Durability. Mass decrement after 25 freeze-thaw cycles	≤ 3%
Gross dry mortar density	≤ 1800 kg/m³
Release/content of hazardous substances	See: Safety Data Sheet

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-04-10

USE AND PROPERTIES

- modern, solvent – free product based on silanes of low viscosity
- for execution of horizontal membranes preventing capillary water rising in damp partitions
- for use with the pressure – free method in conservatory works in heritage buildings as well as in contemporary construction
- is a part of the system for damp proofing and refurbishment of buildings – in combination with other materials allows to reconstruct comprehensively ineffectual/ non – existent damp proofing
- can be used on substrates of very high dampness level, even up to 95%
- for injection into porous, absorptive partitions of brick, stone or concrete blocks
- particularly recommended for walls of composite structure – with cracks and cavities
- characterized by high efficiency and effectiveness – content of active ingredient approx. 80% (by weight)
- very easy to use, does not require specialist equipment or accessories
- thixotropic – properly chosen cream consistency ensures quick and continuous filling the injection hole, eliminates also the risk of uncontrollable leakage of injection cream outside the wall or into existing wall cavities
- solvent – free, does not bring harmful substances into the wall structure
- resistant to alkali
- for indoor and outdoor use

RANGE OF USE

- reconstruction of horizontal damp proofing of foundation walls of buildings with and without basements
- reconstruction of horizontal damp proofing of walls at plinth zones
- in tub – shaped damp proofing system – for damp proofing of internal walls (both partition and load bearing) adjoining the external walls

SUBSTRATE PREPARATION

The substrate should be comprehensively prepared for the use of the renovation system (see technical data sheets for other components of ATLAS GOLDEN AGE restoration plasters system, DAMP PROOFING PLASTER HYDROTYNK U). Damp and saline plasters should be removed up to the height of approx. 80 cm above the highest visible salinity and/or dampness line. Clean the surface of dust, saline efflorescence, mortar residues and poorly bonded wall elements. If need to neutralize the construction salts, use PREPARATION FOR SALT NEUTRALISATION PS, according to its technical data sheet. Carve out the masonry mortar from joints up to depth of 20 mm and re-fill with cement mortar without wall facing. Before injection, cracks, cavities and empty spaces should be filled with cement mortar, e.g. RENOVATION BASE COAT PLASTER TRP (it is advisable to drill sample holes in order to determine the wall construction and structure).

APPLICATION

The technology of works during injection and reconstruction of the horizontal damp proofing depends on the planned technical solution (range of use), current groundwater conditions, wall thickness, substrate dampness and salinity level. The site of execution of the horizontal membrane must be coordinated with the designed secondary damp proofing scheme in order to keep waterproofing continuity. In buildings with basements the horizontal membrane is usually executed in the wall zone directly above the strip foundation (so it can be joined with the floor damp proofing and vertical damp proofing from indoors), for tub – shaped damp proofing the horizontal membrane is usually executed in the upper wall zone (below ceiling). In buildings without basements the horizontal membrane is executed above the ground level (the execution level should be coordinated with the room floor placement, in order to join the floor damp proofing with horizontal damp proofing). Make sure there is no dampness penetration into the wall zone above the membrane. The injection must not be executed in zones loaded with pressurised water.

RECOMMENDATIONS FOR HOLES DRILLING AND INJECTION

Holes intended for introduction of the injection cream into wall structure should be min. 12 mm in diameter and executed in one or two rows. The axial spacing of the holes should be max. 12 cm. In case of injection in two rows, the second row should be executed with a shift (half a distance between the holes).The holes should be drilled in joints, horizontally or with a slight slope. The drilling thickness should be chosen in order to make the hole approx. 2 cm shallower than the total wall thickness. If the hole is not executed in the joint, make sure it cuts at least one horizontal joint. Mark the drilling line and holes placement on the partition. When drilling try to keep the holes parallel – use templates and T – squares, and drillers should, whenever possible, work shake-less. Drain the holes with suction or blow them through with clean compressed air. The cream can be applied with a pressure sprayer (after removing the spraying nozzle), alternatively with a tube squeezer (with additional pipe or hose installed). Place the sprayer lance or the pipe ending in the hole, then apply the cream evenly and remove the tool simultaneously. Properly applied cream should fill the hole fully. After cream absorbing, after approx. 12 hours, it is recommended to float the holes with cement mortar, e.g. RENOVATION BASE COAT PLASTER TRP or DAMP PROOFING PLASTER HYDROTYNK U.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- Decision on the choice of technological and material solutions for damp proofing reconstruction works should be made after evaluation of the local groundwater conditions, type of construction material of walls adjoining the ground, dampness, salinity level and foundations technical state as well as other aspects crucial for a particular object.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The product must be transported and stored in tightly sealed packages, in dry conditions, in positive temperature (most preferably on pallets). Avoid overheating (above +30 °C). Flash point +64 °C.
- Detailed information on hazards and safe use conditions, ecological aspects and recommendations for transport and storage are listed in the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE KI is a solvent – free, silanes – based cream.

Product density	approx. 0.9 g/cm³
Active ingredient content	> 80% by weight
Consumption (in practice depending on substrate material type and thickness, partition dampness and holes diameter)	approx. 1.0 – 1.6 l for 1 m² of wall horizontal section
Temperature during work	from +5°C to +30°C
Available packaging	plastic buckets: 2 l, 20 l

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-04-14

wall restoration system

WALL RESTORATION SYSTEM

CLEANING | MASONRY WORKS | FILLING CAVITIES | COLOR INTEGRATION | REPOINTING | REINFORCEMENT | HYDROPHOBIZATION

CLEANING | MASONRY WORKS | FILLING CAVITIES | COLOR INTEGRATION | REPOINTING | REINFORCEMENT | HYDROPHOBIZATION

CLEANING | MASONRY WORKS | FILLING CAVITIES | COLOR INTEGRATION | REPOINTING | REINFORCEMENT | HYDROPHOBIZATION

MASONRY MORTAR WITH TRASS
ATLAS GOLDEN AGE RZM

WALL RESTORATION SYSTEM

USE AND PROPERTIES

- for masonry works with ceramic brick
- contains trass – mineral of volcanic origin, limiting the possibility of efflorescence occurrence on the mortar surface
- low linear contraction and high bonding to masonry elements
- recommended for traditional masonry works with thick joints – joint thickness from 6 to 40 mm
- available in grey colour
- for indoor and outdoor application
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The bricks prepared for masonry works must be clean, free from dust and dry. During storage, they must be protected against rain and direct sunlight. Before starting the works, mix the bricks from a few pallets to minimize possible differences in the colour shades between bricks coming from various production batches.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 2.75 ÷ 3.25 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after 5 minutes and remixing. Apply the mortar with a trowel upon horizontal and vertical surfaces of the joined elements, according to traditional masonry work principles. The mortar layer must have even thickness and must fill the joints completely, as this will reduce water permeability into the wall partition. Works should be conducted in temperature between +5°C and +30°C. During application and min. 7 days since their completion, protect masonry elements against precipitation and too quick mortar drying. Do not conduct works during precipitation. It is recommended not to commence work if the weather forecast anticipates rain or lowered temperatures for the following days.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE RZM is factory made dry mix manufactured on the basis of the best quality Portland cement, trass flour, fillers and improvers. The product conforms to PN-EN 998-2 standard. EC Declaration of Performance No. AZW RZM/CPR.

Mixing ratio: water/dry mix	2.75 - 3.25 l/25 kg
Pot life	approx. 3 hours
Consumption	approx. 34 kg of mortar for 1 m^2 of traditional size brick wall 12 cm thick
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory-made masonry mortar, manufactured acc. to recipe, general purpose (G), for indoor and outdoor use, in elements subject to structural requirements, for reinforced and un-reinforced walls.	CE 09
Mortar composition (relative to weight): cement, fillers (1:6), with addition of trass flour	
Reaction to fire - class	A1
Compressive strength	≥ 5 N / mm^2
Initial shear strength (tabular value)	≥ 0.15 N / mm^2
Water absorption	0.05 kg / m^2 $min^{0.5}$
Chloride content	0.07% Cl
Water vapour permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength decrease after freeze-thaw cycles	< 10%

MORTAR FOR FILLING GAPS IN BRICK AND NATURAL STONE ATLAS GOLDEN AGE CG-02

USE AND PROPERTIES

- for filling cavities and for reconstruction of damaged fragments in well preserved brick or stone weft, especially in sandstone
- mineral, based on hydraulic binders
- modified with redispersible powder resins improving bonding to substrate (especially on application of a relatively thin layer) and resistance to weather conditions, rich colour palette – 112 ready to use recipes
- depending on individual needs, the mortar can be dyed to a different colour
- very fine grain size (aggregate up to 0.2 mm), with appropriate use, gives the surface appearance typical for fine grain sandstone
- there is a possibility to use another aggregate stack. This way the structure as close as possible to appearance of the original substrate can be achieved.
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance and physical and chemical parameters (reduced linear contraction, improved water transport conditions, etc.)
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, remains of painting coats. Hammer off poorly bonded surface pieces and remove loose or weak parts with steel brush. Directly before filling the cavities, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 3.5 ÷ 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon the substrate with an appropriate tool made of stainless steel and, depending on needs or size of gaps, matching the shape of the reconstructed element. While repairing cavities in larger surfaces, it is recommended to moisten the substrate with water and to apply mortar with the consistency of mud (approx. 0.2 l of water for 1 kg of dry mix). Then, using the "wet on wet" method, apply the proper layer of the mortar. In order to enable further work, the layer of the mortar must extend to approx. 1 – 2 mm above the surface of the original substrate. Apply a single coat not thicker than 30 mm. After a few hours (depending on weather conditions and mortar thickness), start final processing of the surface in order to match it to the structure of the original substrate surface. For a few days after application, moisten the surface of the fresh material with water many times and protect it against precipitation and direct sunlight.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE CG-02 is factory made dry mix manufactured on the basis of the best quality white Portland cement, fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW CG-02/CPR.

Mixing ratio: water/dry mix	3.5 – 4.5 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 20 minutes
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Total water absorption	up to 10%
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Max. aggregate grain size	0.2 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mix of specified properties, general application (GP), suitable for indoor and outdoor use.	CE 09
Reaction to fire - class	A1
Bonding	≥ 0.5 N / mm^2 - FP:B
Compressive strength	1.5 up to 5.0 N / mm^2
Water absorption	≤ 0.40 kg/m^2 $min^{0,5}$
Water vapour permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg/m^3
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength decrease after freeze-thaw cycles	< 10%

MORTAR FOR FILLING GAPS IN BRICK AND NATURAL STONE ATLAS GOLDEN AGE CG-05

WALL RESTORATION SYSTEM

USE AND PROPERTIES

- for filling cavities and for reconstruction of damaged fragments in well preserved brick or stone weft, especially in sandstone
- mineral, based on hydraulic binders
- modified with redispersible powder resins improving bonding to substrate (especially on application of a relatively thin layer) and resistance to weather conditions, rich colour palette – 112 ready to use recipes
- depending on individual needs, the mortar can be dyed to a different colour
- aggregate grain size up to 0.5 mm , with appropriate use, gives the surface appearance typical for fine grain sandstone
- there is a possibility to use another aggregate stack. This way the structure as close as possible to appearance of the original substrate can be achieved.
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance and physical and chemical parameters (reduced linear contraction, improved water transport conditions, etc.)
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, remains of painting coats. Hammer off poorly bonded surface pieces and remove loose or weak parts with steel brush. Directly before filling the cavities, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 3.5 ÷ 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon the substrate with an appropriate tool made of stainless steel and, depending on needs or size of gaps, matching the shape of the reconstructed element. While repairing cavities in larger surfaces, it is recommended to moisten the substrate with water and to apply mortar with the consistency of mud (approx. 0.2 l of water for 1 kg of dry mix). Then, using the "wet on wet" method, apply the proper layer of the mortar. In order to enable further work, the layer of the mortar must extend to approx. 1 – 2 mm above the surface of the original substrate. Apply a single layer not thicker than 30 mm. After a few hours (depending on weather conditions and mortar thickness), start final processing of the surface in order to match it to the structure of the original substrate surface. For a few days after application, moisten the surface of the fresh material with water many times and protect it against precipitation and direct sunlight.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE CG-05 is factory made dry mix manufactured on the basis of the best quality white Portland cement, fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW CG-05/CPR.

Mixing ratio: water/dry mix	3.5 – 4.5 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 20 minutes
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Total water absorption	up to 8%
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Max. aggregate grain size	0.5 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mix of specified properties, general application (GP), suitable for indoor and outdoor use.	CE 09
Reaction to fire - class	A1
Bonding	≥ 0.5 N / mm^2 - FP:B
Compressive strength - category	CS II (1.5 up to 5.0 N / mm^2)
Capillary water absorption category	W1
Water vapor permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg/m^3
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength category after freeze-thaw cycles	CS II

GROUTING MORTAR WITH TRASS
ATLAS GOLDEN AGE FG-05

USE AND PROPERTIES

- for grouting and renovation of existing joints in ceramic brick and natural stone walls
- mineral, based on hydraulic binders
- contains trass – mineral of volcanic origin, limiting the possibility of efflorescence occurrence on the mortar surface
- rich colour palette – 112 ready-to-use recipes, depending on individual needs there is possibility to prepare mortar in a different colour - based on a sample of the original material
- fine granulation (aggregate up to 0.5 mm)
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance, enabling to grout even very poor elements
- strong bonding and low linear contraction
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- for application indoors and outdoors
- waterproof
- frost-resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The joints must be cleaned from dust, dirt, efflorescence and residues of old paint coats. Hammer off poorly bonded surface pieces and remove loose or rubbly parts with a wire brush. Directly before grouting the defect, wet the surface with water. In case of reconstruction of existing joints, remove old damaged grout to the depth of approx. 15 mm.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 3.5 ÷ 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon the substrate with a grouting trowel or a, make sure the space between the wall elements is filled thoroughly and fully. Use stainless steel tools. Conduct the application in temperature between +5°C and +25°C. During application and min. 7 days since their completion, protect the grouted elements from precipitation and drying too fast. Note! Due to the content of natural components, use only material of the same production batch for each individual surface in order to avoid differences in shades of the mortar.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to building principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions, in above zero temperature (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE FG-05 is factory made dry mix manufactured on the basis of the best quality white Portland cement, fillers and improvers. The product conforms to PN-EN 998-2:2012 (EN 998-2:2010) standard. EC Declaration of Performance No. AZW FG-05/CPR.

Mixing ratio: water/dry mix	3.5 – 4.5 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory-made masonry mortar, according to recipe, general purpose (G), for indoor and outdoor use, in elements subject to structural requirements, for reinforced and non-reinforced walls.	CE 09
Mortar composition (relative to weight): cement-lime-aggregate (1:1:10), with addition of trass flour	
Reaction to fire - class	A1
Compressive strength	≥ 2.5 N / mm^2
Initial shear strength (tabular value)	≥ 0.15 N / mm^2
Water absorption	0.05 kg / m^2 $min^{0.5}$
Chloride content	0.07% Cl
Water vapour permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.67 W / mK ($\lambda_{10, dry}$)
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength decrease after freeze-thaw cycles	< 10%

GROUTING MORTAR WITH TRASS
ATLAS GOLDEN AGE FG-12

WALL RESTORATION SYSTEM

USE AND PROPERTIES

- for grouting and renovation of existing joints in ceramic brick and natural stone walls
- mineral, based on hydraulic binders
- contains trass – mineral of volcanic origin, limiting the possibility of efflorescence occurrence on the mortar surface
- rich colour palette – 112 ready to use recipes, depending on individual needs there is possibility to prepare mortar in a different colour - based on a sample of the original material
- aggregate grain size 1.2 mm
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance and physical and chemical parameters
- strong bonding and low linear contraction
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- for application indoors and outdoors
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The joints must be cleaned from dust, dirt, efflorescence and the residues of old paint coats. Hammer off poorly bonded surface pieces and remove loose or rubbly parts with a wire brush. Directly before grouting the defect, wet the surface with water. In case of reconstruction of existing joints, remove old damaged grout to the depth of approx. 15 mm.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 3.5 ÷ 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon the substrate with a grouting trowel or a steel float, make sure the space between the wall elements is filled thoroughly and fully. Use stainless steel tools. Conduct the application in temperature between +5°C and +25°C. During application and min. 7 days since their completion, protect the grouted elements from precipitation and drying too fast. Note! Due to the content of natural components, use only material of the same production batch for each individual surface in order to avoid differences in shades of the mortar.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE FG-12 is factory made dry mix manufactured on the basis of the best quality white Portland cement, fillers and improvers. The product conforms to PN-EN 998-2:2012 (EN 998-2:2010) standard. EC Declaration of Performance No. AZW FG-12/CPR.

Mixing ratio: water/dry mix	3.5 – 4.5 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory-made masonry mortar, according to recipe, general purpose (G), for indoor and outdoor use, in elements subject to structural requirements, for reinforced and non-reinforced walls.	CE 09
Mortar composition (relative to weight): cement-lime-aggregate (2:1:13), with addition of trass flour	
Reaction to fire - class	A1
Compressive strength	≥ 5.0 N / mm²
Initial shear strength (tabular value)	≥ 0.15 N / mm²
Water absorption	0.05 kg / m^2 $min^{0.5}$
Chloride content	0.07% Cl
Water vapour permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength decrease after freeze-thaw cycles	< 10%

GROUTING MORTAR WITH TRASS
ATLAS GOLDEN AGE FG-20

USE AND PROPERTIES

- for grouting and renovation of existing joints in ceramic brick and natural stone walls
- mineral, based on hydraulic binders
- contains trass – mineral of volcanic origin, limiting the possibility of efflorescence occurrence on the mortar surface
- rich colour palette – 112 ready to use recipes, depending on individual needs there is possibility to prepare mortar in a different colour - based on a sample of the original material
- aggregate grain size 2.0 mm
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance and physical and chemical parameters
- strong bonding and low linear contraction
- factory preparation of the material ensures repeatability of grain size, colour and properties of the finished mix – very significant factor during renovation of large façade surfaces
- for application indoors and outdoors
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The joints must be cleaned from dust, dirt, efflorescence and the residues of old paint coats. Hammer off poorly bonded surface pieces and remove loose or rubbly parts with a wire brush. Directly before grouting the defect, wet the surface with water. In case of reconstruction of existing joints, remove old damaged grout to the depth of approx. 15 mm.

APPLICATION

Pour the dry mix from the bag into a clean container with the suitable amount of water (recommended ratio: 3.5 ÷ 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon the substrate with a grouting trowel or a steel float, make sure the space between the wall elements is filled thoroughly and fully. Use stainless steel tools. Conduct the application in temperature between +5°C and +25°C. During application and min. 7 days since their completion, protect the grouted elements from precipitation and drying too fast. Note! Due to the content of natural components, use only material of the same production batch for each individual surface in order to avoid differences in shades of the mortar.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE FG-20 is factory made dry mix manufactured on the basis of the best quality white Portland cement, fillers and improvers. The product conforms to PN-EN 998-2:2012 (EN 998-2:2010) standard. EC Declaration of Performance No. AZW FG-20/CPR.

Mixing ratio: water/dry mix	3.5 – 4.5 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory-made masonry mortar, according to recipe, general purpose (G), for indoor and outdoor use, in elements subject to structural requirements, for reinforced and non-reinforced walls.	CE 09
Mortar composition (relative to weight): cement-lime-aggregate (1:1:10), with addition of trass flour	
Reaction to fire - class	A1
Compressive strength	≥ 5.0 N / mm²
Initial shear strength (tabular value)	≥ 0.15 N / mm²
Water absorption	0.05 kg / m^2 $min^{0,5}$
Chloride content	0.07% Cl
Water vapor permeability coefficient μ	15 / 35
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Durability. Mass decrement after freeze-thaw cycles	< 3%
Durability. Compressive strength decrease after freeze-thaw cycles	< 10%

plaster restoration system

PLASTER RESTORATION SYSTEM

The products of PlasterRestoration System - ATLAS GOLDEN AGE have passed the qualifying examination of WTA (Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege e.V.- Scientific and Technical Association for Building, Preservation and Conservation) and thus meets the criteria of the WTA data sheet: 2-9-04. Validity 12.2014

SCRATCH COAT → **BASE COAT** → **RENOVATION PLASTER** → SURFACE FINISHING → PRIMING → PAINTING

SCRATCH COAT → BASE COAT → RENOVATION PLASTER → **SURFACE FINISHING** → PRIMING → PAINTING

SCRATCH COAT → BASE COAT → RENOVATION PLASTER → SURFACE FINISHING → **PRIMING** → **PAINTING**

SCRATCH COAT
ATLAS GOLDEN AGE TRO

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for execution of scratch coat prior to application of ATLAS GOLDEN AGE renovation plasters on damp and saline surfaces
- developed according to WTA 2-9-04 instruction guidelines
- recommended for heritage buildings, foundations, cellar walls and aboveground storeys
- forms contact coat between substrate and main coat of renovation plaster or renovation base coat plaster
- characterized by high bonding to damp and saline substrates
- high mechanical resistance
- resistant to salts dissolved in water
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

Before commencement of application of renovation plasters, it is advisable to confirm the substrate salinity level. In case of medium and high salinity, apply ATLAS GOLDEN AGE TRP base coat before the application of ATLAS GOLDEN AGE TR renovation plaster and in case of low salinity, apply ATLAS GOLDEN AGE TR renovation plaster directly upon the scratch coat. Remove damp and saline plasters to the height of 80 cm above the highest visible salinity and/or dampness borderline. Hack off masonry mortar from the joints to the depth of approx. 20 mm. Further on, clean the exposed wall surface from dust, efflorescence, residues of mortar and poorly bonded wall elements. **Note!** Remove debris on regular basis. Wet excessively absorptive substrates with water.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with the suitable amount of water and mixing mechanically until homogenous, free from lumps and separating liquid. Recommended ratio: 4.25-4.75 liters of water to 25 kg of dry mix. Apply scratch coat with uniform coat approx. 5 mm thick, form openwork coat, cover not more than 50% of the substrate. Formed surface must not be smoothed or floated. After scratch coat setting (approx. 24 hours), the main coat of ATLAS GOLDEN AGE TRP renovation base coat can be applied. While applied scratch coat is drying, provide appropriate ventilation indoors. Protect scratch coat applied outdoors from drying too fast.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TRO is factory made dry mix manufactured on the basis of high quality cement binder, quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TRO/CPR. The product has been given the WTA certificate.

Mixing ratio: water/dry mix	4.25-4.75 l/25 kg
Pot life	approx. 4 hours
Consumption	approx. 5 kg for 1 m² with 5 mm layer thickness and 50% substrate coverage
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mortar of specified properties, general-purpose (GP), for indoor and outdoor use, on masonry walls, ceilings, posts and partition walls	CE 14
Reaction to fire - class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Compressive strength	≥ 6 N / mm²
Water absorption - category	W1
Water vapour permeability coefficient (tabular value, μ)	15/35 (EN 1745:2002 tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$) (EN 1745:2002 tab.A.12)
Gross dry density	≤ 1800 kg/m³
Durability. Bonding	≥ 0.3 N/mm² - FP:B
Durability. Water absorption - category	W1

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-09-01

RENOVATION BASE COAT PLASTER ATLAS GOLDEN AGE TRP

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for application of renovation base coat plasters on damp and saline surfaces
- recommended for heritage buildings, foundations, cellar walls and aboveground storeys
- developed according to WTA instruction guidelines
- recommended for substrates of medium and high salinity levels
- forms leveling coat - enables application of even coat of ATLAS GOLDEN AGE TR renovation plaster; it is also the first layer absorbing salt from substrate and retaining it.
- characterized by high porosity and therefore high ability of retention of crystallizing salt
- large number and volume of pores in the set mortar provides perfect coat vapour permeability, enabling free evaporation of damp and fast drying of the substrate
- resistant to salts dissolved in water
- for indoor and outdoor application
- for manual or machine application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

Before commencement of application of renovation plasters, it is advisable to confirm the substrate salinity level. Application of ATLAS GOLDEN AGE TRP renovation base coat plaster is recommended in case of medium and high salinity levels. In other cases, ATLAS GOLDEN AGE TR renovation plaster can be applied directly upon ATLAS GOLDEN AGE TRO scratch coat. Remove damp and saline plasters to the height of 80 cm above the highest visible salinity and/or dampness borderline. Hack off masonry mortar from the joints to the depth of approx. 20 mm. Further on, clean the exposed surface of wall from dust, efflorescence, residues of mortar and poorly bonded wall elements. **Note!** Remove debris on regular basis. Then, wet substrate with water and apply contact coat with ATLAS GOLDEN AGE TRO renovation scratch coat, applied with openwork coat 5 mm thick covering not more than 50% of the substrate. When it sets, after approx. 24 hours, the main coat of ATLAS GOLDEN AGE TRP renovation base coat can be applied.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with suitable amount of water and mixing mechanically until homogenous, free from lumps and separating liquid. Recommended ratio: 4.25-4.75 liters of water to 25 kg of dry mix. The plaster can also be prepared in plastering units. Apply plaster with uniform coat manually or mechanically upon appropriately set scratch coat. Remove the excess of material with a darby. Keep the coat even, minimum 10 mm thick, over the whole surface. Do not float the plaster. After initial setting, brush the surface with a hard hair or a sharp broom horizontally - action forms the roughest surface possible ensuring optimum bonding to the subsequent coat i.e. ATLAS GOLDEN AGE TR renovation plaster. While applied plaster is drying, provide appropriate ventilation of rooms indoors. Protect plasters applied outdoors from drying too fast.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TRP is factory made dry mix manufactured on the basis of the highest quality cement binder, quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TRP/CPR. The product has been given the WTA certificate.

Mixing ratio: water/dry mix	4.25-4.75 l/25 kg
Pot life	approx. 2 hours
Porosity	> 45%
Min. coat thickness	10 mm
Max. coat thickness	20 mm
Consumption	approx. 12 kg for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm^2 - FP:B
Water absorption	≤ 0.3 kg / m^2 after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.67 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1600 kg / m^3
Durability. Bonding	< 1%
Durability. Water absorption	≥ 0.3 N/mm^2 - FP:B

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-09-01

RENOVATION PLASTER
ATLAS GOLDEN AGE TR

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for application of renovation plasters on damp and saline surfaces of brick and natural stone
- recommended for heritage buildings, on foundations, cellar walls and aboveground storeys
- developed according to WTA instruction guidelines
- element of ATLAS GOLDEN AGE system of renovation plasters, which consists of three plaster types optimally combined in terms of physical and chemical parameters, and which application ensures appropriate interaction of consecutively applied coats and guarantees durability and effectiveness of renovation works
- universal – can be applied directly upon substrate (for low salinity level) or upon previously applied coat of ATLAS GOLDEN AGE TRP base coat plaster (for medium or high salinity level)
- finishing coat - used beneath rendering coat or paints
- characterized by high porosity, therefore high ability of retention of crystallizing salt
- large number and volume of pores in the set mortar provides perfect coat vapour permeability enabling free evaporation of damp and fast drying of the substrate
- contains hydrophobic components – reducing plaster surface absorptiveness, owing to which the surface is protected against precipitation and water penetration
- for manual or machine application
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

Before commencement of application of renovation plasters, it is advisable to confirm the substrate salinity level. In case of low salinity level, ATLAS GOLDEN AGE TR renovation plaster can be applied directly upon previously applied ATLAS GOLDEN AGE TRO scratch coat. In case of medium or high salinity level application of ATLAS GOLDEN AGE TRP renovation base coat plaster is required. Remove damp and saline plasters to the height of 80 cm above the highest visible salinity and/or dampness borderline. Hack off masonry mortar from the joints to the depth of approx 20 mm. Further on, clean the exposed surface of wall from dust, efflorescence, residues of mortar and poorly bonded wall elements. **Note!** Remove debris on regular basis. Then, wet substrate with water and apply contact coat with ATLAS GOLDEN AGE TRO renovation scratch coat, applied with openwork coat 5 mm thick covering not more than 50% of the substrate. When it sets, after approx. 24 hours, the main coat of ATLAS GOLDEN AGE TRP renovation base coat can be applied.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with suitable amount of water and mixing mechanically until homogenous, free from lumps and separating liquid. Recommended ratio: 4.25-4.75 liters of water to 25 kg of dry mix. The plaster can also be prepared in plastering units. Apply plaster with uniform coat manually or mechanically upon appropriately set scratch coat or base coat. Remove the excess of material with a darby. Keep the coat even, minimum 10 mm thick, which will ensure effectiveness of the renovation plaster. Maximum thickness of a single coat is 20 mm. Float the plaster slightly, but without surface felting. Depending on the designed aesthetic effect, ATLAS GOLDEN AGE TR plaster can be finished with appropriately selected renovation top finish mortar or paint, e.g. ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint. The materials used for surface top finishing must not deteriorate vapour permeability of the renovation plaster. While applied plaster is drying, provide appropriate ventilation of rooms indoors. Protect plasters applied outdoors from drying too fast.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TR is factory made dry mix manufactured on the basis of high quality cement binder, quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TR/CPR. The product has been given the WTA certificate.

Mixing ratio: water/dry mix	4.25-4.75 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 12 kg of mortar for 1 m² at 10 mm layer thickness
Min. coat thickness	10 mm
Max. coat thickness	20 mm
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Water absorption	≤ 0.3 kg / m² after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.67 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1600 kg/m³
Durability. Bonding	≥ 0.3 N/mm² - FP:B
Durability. Water absorption	≤ 0.3 kg / m² after 24 hours

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-09-01

RENOVATION PLASTER
ATLAS GOLDEN AGE TR-B

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for application of renovation plasters upon damp and saline surfaces of brick and natural stone
- recommended for heritage buildings, on foundations, cellar walls and aboveground storeys
- developed according to WTA 2-9-04 instruction guidelines
- element of ATLAS GOLDEN AGE system of renovation plasters. System consists of materials optimally combined in terms of physical and chemical parameters
- finishing coat in vintage white colour, plaster surface is ready for further painting
- highly porous, therefore ensures ability of retention of crystallizing salt
- large number and volume of pores in the set mortar provides perfect coat vapour permeability, enabling free evaporation of damp and fast drying of the substrate
- contains hydrophobic components – reducing plaster surface absorptiveness, owing to which the surface is protected against precipitation and water action
- for manual or machine application indoors and outdoors
- waterproof and frost resistant

COATS ARRANGEMENT

Before commencement of application of renovation plasters, it is advisable to confirm the substrate salinity level, which decides on arrangement of coat and thickness – see table.

Salinity level	Recommended arrangement of coats	Coat thickness [mm]
low	Scratch coat TRO	≤ 5
	Renovation plaster TR or Renovation plaster TR-B	≥ 20
medium	Scratch coat TRO	≤ 5
	Renovation plaster TR or Renovation plaster TR-B	10 up to 20
	Renovation plaster TR or Renovation plaster TR-B	10 up to 20
high	Scratch coat TRO	≤ 5
	Renovation plaster TR or Renovation plaster TR-B	≥ 10
	Renovation plaster TR or Renovation plaster TR-B	≥ 15

SUBSTRATE PREPARATION

Remove damp and saline plasters to the height of 80 cm above the highest visible salinity and/or dampness borderline. Hack off masonry mortar from the joints to the depth of approx. 20 mm. Further on, clean the exposed surface of wall from dust, efflorescence, residues of mortar and poorly bonded wall elements. **Note!** Remove debris on regular basis. Then, wet substrate with water and apply contact coat with ATLAS GOLDEN AGE TRO renovation scratch coat, applied with openwork coat 5 mm thick covering not more than 50% of the substrate. When it sets, after approx. 24 hours, the subsequent coat of renovation plaster can be applied.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with suitable amount of water and mixing mechanically until homogenous, free from lumps and separating liquid. Recommended ratio: 4.50-4.75 liters of water to 25 kg of dry mix. The plaster can also be prepared in plastering units. Apply plaster with uniform coat, manually or mechanically upon appropriately set scratch coat or base coat. Remove the excess of material with a darby. Keep the coat minimum 10 mm thick, which will ensure effectiveness of the renovation plaster. Maximum thickness of a single coat is 20 mm. Float the plaster slightly, but without surface felting. Depending on the designed aesthetic effect, surface of ATLAS GOLDEN AGE TR-B plaster can be finished with appropriately selected renovation top finish or paint, e.g. ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint. The materials used for surface top finishing must not deteriorate vapour permeability of the renovation plaster. While applied plaster is drying, provide appropriate ventilation of rooms indoors. Protect plasters applied outdoors from drying too fast.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).

- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TR-B is factory made dry mix manufactured on the basis of the high quality white cement, quartz fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW TR-B/CPR.

Mixing ratio: water/dry mix	4.50-4.75 l/25 kg
Pot life	approx. 2 hours
Water penetration	≤ 5 mm
Consumption	approx. 12 kg of mortar for 1 m² at 10 mm layer thickness
Min. coat thickness	10 mm
Max. coat thickness	20 mm
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire - class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Water absorption	≤ 0.3 kg / m² after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.67 W / mK (λ10,dry) (EN 1745:2002, tab. A12)
Gross dry density	≤ 1600 kg/m³
Durability. Bonding	≥ 0.3 N / mm² - FP:B
Durability. Water absorption	≤ 0.3 kg / m² after 24 hours

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-05-30

RENOVATION CONTACT COAT
ATLAS GOLDEN AGE TK

USE AND PROPERTIES

- mineral mortar, reinforced with fibers, used during refurbishment of plasters as adhesive for mesh embedding, contact coat and repair mortar
- for mesh embedding and base coat application in case of repairs of cracked façade and interior plasters
- as contact coat, for application of intermediate coats beneath top finish plasters of class CS I, CS II and CS III, including thin-coat and fine ones
- can be used as repair mortar for repairs of local gaps in plaster coats
- for use upon plastered surfaces coated with lime, lime-cement or cement-lime plasters, concrete and aerated concrete. It can be used upon old paint coats and resin plasters after cleaning and test of bonding
- manufactured on the basis of white hydraulic binder, enables forming bright plaster coats (vintage white) facilitating coating with façade paints and limiting risk of dis-colouration
- fine aggregate (grain size up to 0.8 mm)
- modified with redispersible powder resins, which improve bonding to substrate (particularly in case of very thin coats)
- resistant to cracking – contains fiberglass which strengthens coat structure and improves compensation of deformations resulting from substrate properties and operation thermal factors
- water vapour permeable – does not limit free transfer of water vapour through partition
- characterised by reduced absorptiveness, does not require priming prior to application of subsequent coats
- very good workability, contains methylcellulose improving water retention, which positively influences setting conditions and binder setting
- material prepared specifically for the needs of conservation of heritage buildings – it is characterized by optimally selected resistance and physical and chemical parameters (limited linear contraction, favourable modulus of elasticity – reduced ratio of compressive and flexural strength)
- free of harmful construction salts
- factory-made – ensures repeatability of aggregate size, colour and mixed mortar properties, which is extremely important during large scale renovation
- for indoor and outdoor use
- waterproof and frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Concrete substrates should be cleaned of anti-adhesion agents and formwork oil. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. In case of cracks or stable gaps above 0.2 mm wide, one should make them deeper and fill with TK mortar of thick consistency. Cracks and gaps up to 0.2 mm wide can be left without initial filling. Directly before mortar application, wet absorptive substrate with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 4.75 – 5.25 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing.
Mesh embedding: apply the mortar with a steel float, spread and shape with a notched trowel (notch size 8 mm), embed reinforcing mesh in freshly applied mortar, keep min. 10 cm wide overlaps between neighbouring mesh strips. Additional mesh strips should be applied diagonally upon window and door reveal corners and upon joint of elements made of different materials. Embed mesh thoroughly and even the surface. **Surface floating:** apply the mortar with a steal float, spread and smooth. Slightly grind, if needed. **Contact coat:** apply the mortar with a steel float, spread uniformly upon whole surface, brush horizontally fresh mortar coat with a hard bristle brush. **Filling gaps:** apply the mortar with a stainless steel float, depending on needs and gaps size, keep shape of filled or reshaped element. **Note.** Protect the surface against excessive drying during material application and setting. It is advisable to use scaffolding protective nets. Coats applied outdoors should be protected with paint coats, e.g. ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint. .

REMARKS

- Do not use upon gypsum substrates.
- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- Use fiberglass reinforcing mesh, protected against alkali in acrylic bath, of individually selected density (55-160 g/m^2).
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TK is factory made dry mix manufactured on the basis of high quality white hydraulic binder, quartz fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW TK/CPR.

Bulk density	approx. 1.4 kg/dm³
Colour	vintage white
Mixing ratio: water/dry mix	4.75 – 5.25 l/25 kg
Pot life	approx. 4 hours
Open time	approx. 25 minutes
Grain size	0.8 mm
Compressive strength	≥ 6.0 N/mm² (CS IV)
Bonding to substrate	≥ 0.25 N/mm²
Water absorption caused by capillary action W2	≤ 0.2 kg/m²/$h^{0,5}$
Water vapour diffusion coefficient S_d (coat thickness 2 mm)	0.5 m
Consumption	approx. 1.5 kg of mortar for 1 m² at 1 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Min. / max. coat thickness	2 mm / 6 mm
Packaging	paper bags 25 kg

Factory made, one coat plastering mortar (OC), for outdoor and indoor use, on masonry walls, ceilings, posts, partition walls	CE 15
Reaction to fire - class	A1
Bonding after required freeze-thaw cycles	≥ 0.3 N / mm² - FP:B
Water absorption - category	W2
Water absorption after required freeze-thaw cycles	≤ 1 ml / cm² after 48 hours
Water vapour permeability coefficient μ	15/35 (EN 1745:2002, tab. A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10,dry}$) (EN 1745:2002, tab. A12)
Gross dry density	≤ 1800 kg/m³
Durability. Bonding after required freeze-thaw cycles	≥ 0.3 N / mm² - FP:B
Durability. Water absorption after required freeze-thaw cycles	≤ 1 ml / cm² after 48 hours
Content/release of hazardous substances	See Safety Data Sheet

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-03-01

RENOVATION FINE-AGGREGATE FINISHING COAT ATLAS GOLDEN AGE TS

USE AND PROPERTIES

- for application of finishing coats upon walls and ceilings
- very fine granulation (aggregate up to 0.2 mm) – allows to form very smooth surface
- recommended for plastering rough surfaces of ceramic brick, lime-sand brick, natural stone, concrete, cement plaster, cement, cement-lime and renovation plaster
- based on very high quality white Portland cement
- contains lime – natural binder used for ages in production of construction materials - its content decides about coat elasticity and its resistance to cracking
- high resistance to micro-cracking – owing to use of special microfibres additionally reinforcing the structure of material
- wide range of application – coat thickness from 1 up to 10 mm
- white finish – allows for easy and economical painting
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 7.0 ÷ 8.0 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar with uniform coat with a stainless steel float, pressing strongly against the substrate. Surface can be finished by grinding or light floating with a felt float. Protect the surface against excessive drying during material application and setting.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TS is factory made dry mix manufactured on the basis of high quality mineral binder (cement and lime), quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TS/CPR.

Mixing ratio: water/dry mix	7.0 – 8.0 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 25 minutes
Consumption	approx. 15 kg of mortar for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5 °C to +25 °C
Min. / max. coat thickness	1 mm / 10 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made, one coat plastering mix of specified properties (OC), for outdoor use on walls, ceilings, posts and partition walls	CE 14
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm^2 - FP:B
Water absorption - category	W1
Water permeability after freeze-thaw cycles	≤ 1 ml/cm^2 after 48 hours
Water vapour permeability coefficient μ (tabular value)	15/35 (EN 1745:2002, tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg / m^3
Durability. Bonding after required freeze-thaw cycles	≥ 0.3 N/mm^2
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm^2 after 48 hours

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-05-05

RENOVATION COARSE-AGGREGATE FINISHING COAT ATLAS GOLDEN AGE TSG

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for application of finishing coats upon walls and ceilings
- granulation up to 1.0 mm – allows forming surface characteristic for historic plasters
- recommended for smoothing surfaces of previously applied cement, lime-cement and cement-lime renovation plasters and concrete
- based on very high quality white Portland cement
- contains lime – natural binder used in production of construction materials - its content decides about coat elasticity and its resistance to cracking
- high resistance to micro-cracking – owing to use of special microfibres additionally reinforcing the structure of material
- wide range of application – coat thickness from 1 up to 10 mm
- white finish – allows for easy and economical painting
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 7.0 ÷ 8.0 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar with uniform coat with a stainless steel float, pressing strongly against the substrate. Surface can be finished by grinding or light floating with a felt float. Protect the surface against excessive drying during the material application and setting.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TSG is factory made dry mix manufactured on the basis of high quality mineral binder (cement and lime), quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TSG/CPR.

Mixing ratio: water/dry mix	7.0 – 8.0 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 25 minutes
Consumption	approx. 15 kg of mortar for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. coat thickness	1 mm / 10 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made, one coat plastering mix of specified properties (OC), for outdoor use on walls, ceilings, posts and partition walls	CE 14
Reaction to fire – class	A1
Bonding	≥ 0.3 N/mm² - FP:B
Water absorption - category	W1
Water permeability after freeze-thaw cycles	≤ 1 ml/cm² after 48 hours
Water vapour permeability coefficient μ (tabular value)	15/35 (EN 1745:2002, tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg / m³
Durability. Bonding after required freeze-thaw cycles	≥ 0.3 N/mm²
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm² after 48 hours

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-05-05

COARSE AGGREGATE LIME FINISHING COAT WITH TRASS ATLAS GOLDEN AGE TSGW

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for indoor and outdoor application of finishing coats upon walls and ceilings coated with lime, cement-lime and lime-cement plasters
- for renovation of façade and interior plasters in heritage buildings, particularly recommended for smoothing renovation plasters Atlas Golden Age
- coarse aggregate (grain size up to 1.0 mm), for manual application with coats 5-10 mm thick
- mineral, cement-free, manufactured on the basis of natural hydraulic lime (NHL), enables forming surfaces of colour and appearance characteristic for historic lime plasters
- contains trass – mineral of volcanic origin limiting the possibility of efflorescence occurrence on the mortar surface
- high resistance to cracking – slow process of setting and mechanical strength improvement as well as content of microfibres highly reduce the risk of surface cracking
- contains hydrophobic additives – reducing plaster surface absorptiveness, therefore coat is protected against precipitation and water action
- perfect vapour permeability ($\mu \leq 15$), enables use upon repair layers made of renovation plasters
- high bonding to substrate (≥ 0.3 N / mm^2 - FP:B)
- free of harmful construction salts
- material prepared specifically for the needs of conservation of historical objects – it is characterized by optimally selected resistance and physical and chemical parameters (limited linear contraction, favourable modulus of elasticity – reduced ratio of compressive and flexural strength)
- waterproof and frost resistant (after setting)

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before finishing coat application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 5.50 – 6.25 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar with uniform coat with a stainless steel float, pressing strongly against the substrate. Surface can be finished by grinding or light floating with a felt float. Protect the surface against excessive drying during material application and setting.

REMARKS

- Do not use upon gypsum plasters.
- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TSGW is factory made dry mix manufactured on the basis of high quality hydraulic binder, quartz fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW TSGW/CPR.

Mixing ratio: water/dry mix	5.50 – 6.25 l/25 kg
Pot life	approx. 1 hour
Open time	approx. 30 minutes
Compressive strength	approx. 2.0 N/mm² (CS I)
Consumption	approx. 1.3 kg of mortar for 1 m² at 1 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. coat thickness	5 mm / 10 mm
Packaging	paper bags 25 kg

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire - class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Water absorption	≤ 0.3 kg / m² after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.47 W / mK (λ10,dry) (EN 1745:2002, tab. A12)
Gross dry density	≤ 1300 kg/m³
Durability. Bonding Water absorption	 ≥ 0.3 N / mm² - FP:B ≤ 0.3 kg / m² after 24 hours
Content/release of hazardous substances	See Safety Data Sheet

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-08-03

FINE AGGREGATE LIME FINISHING COAT WITH TRASS ATLAS GOLDEN AGE TSW

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for indoor and outdoor application of finishing coats upon walls and ceilings coated with lime, cement-lime and lime-cement plasters
- for renovation of façade and interior plasters in heritage buildings, particularly recommended for smoothing renovation plasters Atlas Golden Age
- fine aggregate (grain size up to 0.2 mm), for manual application with coats max. 5 mm thick
- mineral, cement-free, manufactured on the basis of natural hydraulic lime (NHL), enables forming surfaces of colour and appearance characteristic for historic lime plasters
- contains trass – mineral of volcanic origin limiting the possibility of efflorescence occurrence on the mortar surface
- high resistance to cracking – owing to proper content of microfibres strengthening the plaster and natural properties of lime (slow process of setting and mechanical strength improvement as well as low modulus of elasticity)
- contains hydrophobic additives – reducing plaster surface absorptiveness, therefore coat is protected against precipitation and water action
- bright and uniform coat colour (vintage white) enables easy and quick coating with paints
- perfect vapour permeability ($\mu \leq 15$), enables use upon repair layers made of renovation plasters
- high bonding to substrate (≥ 0.3 N / mm² - FP:B)
- free of harmful construction salts
- material prepared specifically for the needs of conservation of heritage buildings – it is characterized by optimally selected resistance and physical and chemical parameters (limited linear contraction, favourable modulus of elasticity – reduced ratio of compressive and flexural strength
- waterproof and frost resistant (after setting)

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before finishing coat application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 5.75 – 6.25 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar with uniform coat with a stainless steel float, pressing strongly against the substrate. Surface can be finished by grinding or light floating with a felt float. Protect the surface against excessive drying during material application and setting.

REMARKS

- Do not use upon gypsum plasters.
- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TSW is factory made dry mix manufactured on the basis of high quality hydraulic binder, quartz fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW TWT/CPR.

Mixing ratio: water/dry mix	5.75 – 6.25 l/25 kg
Pot life	approx. 1 hour
Open time	approx. 30 minutes
Consumption	approx. 1.3 kg of mortar for 1 m² at 1 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. coat thickness	1 mm / 5 mm
Packaging	paper bags 25 kg

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire - class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Water absorption	≤ 0.3 kg / m² after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.47 W / mK (λ10,dry) (EN 1745:2002, tab. A12)
Gross dry density	≤ 1300 kg/m³
Durability. Bonding Water absorption	 ≥ 0.3 N / mm² - FP:B ≤ 0.3 kg / m² after 24 hours
Content/release of hazardous substances	See Safety Data Sheet

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-08-03

LIME PLASTER WITH TRASS
ATLAS GOLDEN AGE TWT

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for plastering upon surfaces coated with old lime and cement-lime plasters, can be used on rough surfaces made of brick or natural stone
- for walls and ceilings, indoors and outdoors
- for manual and machine application, coat thickness 10-20 mm
- mineral, cement-free, manufactured on the basis of natural hydraulic lime (NHL), enables forming surfaces of colour and appearance characteristic for historic lime plasters, bright and uniform plaster colour (vintage white) enables easy and quick coating with paints
- contains trass – mineral of volcanic origin limiting the possibility of efflorescence occurrence on the mortar surface
- high resistance to cracking – owing to proper content of microfibres strengthening the plaster and natural properties of lime (slow process of setting and mechanical strength improvement as well as low modulus of elasticity)
- perfect vapour permeability ($\mu \leq 15$)
- high bonding to substrate (≥ 0.3 N / mm² - FP:B)
- free of harmful construction salts
- material prepared specifically for the needs of conservation of heritage buildings – it is characterized by optimally selected resistance and physical and chemical parameters (limited linear contraction, favourable modulus of elasticity – reduced ratio of compressive and flexural strength
- waterproof and frost resistant (after setting)

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 6.0 – 6.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the plaster with two coats - as base coat and top coat. Apply the mortar manually with a trowel, with uniform coat, level the surface and leave for initial setting. In case of application of plasters above 20 mm thick, it is advisable to apply plaster with a few coats with appropriate technological breaks (one day for each mm of coat thickness). In such cases, after initial plaster setting, one should horizontally brush the surface with a brush with hard bristles, which would form rough surface and ensure perfect bonding of the subsequent plaster coat. Plaster can be smoothed, floated or grinded. Protect the surface against excessive drying during material application and setting, wet it with water, if necessary. Lead finishing works when the plaster fully sets and hardens.

REMARKS

- Do not use upon gypsum plasters.
- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet

TECHNICAL DATA

ATLAS GOLDEN AGE TWT is factory made dry mix manufactured on the basis of high quality hydraulic binder, quartz fillers and improvers. The product conforms to PN-EN 998-1 standard. EC Declaration of Performance No. AZW TWT/CPR..

Mixing ratio: water/dry mix	6.0 – 6.5 l/25 kg
Pot life	approx. 1 hour
Open time	approx. 30 minutes
Compressive strength	approx. 2.0 N/mm² (CS I)
Consumption	approx. 13 kg of mortar for 1 m² at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. coat thickness	10 mm / 20 mm
Packaging	paper bags 25 kg

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 15
Reaction to fire - class	A1
Bonding	≥ 0.3 N / mm² - FP:B
Water absorption	≤ 0.3 kg / m² after 24 hours
Water vapour permeability coefficient μ	≤ 15
Thermal conductivity coefficient (average tabular value P=50%)	0.47 W / mK (λ10,dry) (EN 1745:2002, tab. A12)
Gross dry density	≤ 1300 kg/m³
Durability. Bonding Water absorption	 ≥ 0.3 N / mm² - FP:B ≤ 0.3 kg / m² after 24 hours
Content/release of hazardous substances	See Safety Data Sheet

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-08-03

WHITE RENOVATION TOP FINISH
ATLAS GOLDEN AGE TG

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for application of thin-coat top finishes upon typical mineral substrates like concrete, aerated concrete, brick and cement, gypsum and lime plasters
- for smoothing surfaces of casted sculptures and architectural elements
- white – mortar based on white Portland cement
- based on dolomite flour of grain size up to 0.1 mm – allows forming ideally smooth surfaces
- coat thickness between 1 and 5 mm
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 8.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar with uniform coat with a stainless steel float, pressing strongly against the substrate. Surface can be finished by grinding or light floating with a felt float. Mortar open time (between mortar application and floating) depends on substrate absorptiveness, ambient temperature and mortar consistency. Protect the surface against excessive drying during material application and setting.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TG is factory made dry mix manufactured on the basis of high quality mineral binder (cement and lime), dolomite fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TG/CPR.

Mixing ratio: water/dry mix	8.5 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 15 minutes
Consumption	up to 1.5 kg of mortar for 1 m^2 at 1 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. coat thickness	1 mm / 5 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made, one coat plastering mix of specified properties (OC), for outdoor use on walls, ceilings, posts and partition walls	CE 14
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm^2 - FP:B
Water absorption - category	W1
Water permeability after freeze-thaw cycles	≤ 1 ml/cm^2 after 48 hours
Water vapour permeability coefficient μ (tabular value)	15/35 (EN 1745:2002, tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg / m^3
Durability. Bonding after required freeze-thaw cycles	≥ 0.3 N/mm^2
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm^2 after 48 hours

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-05-05

CEMENT-LIME PLASTER
ATLAS GOLDEN AGE TCW

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- recommended for plastering rough surfaces of ceramic and lime-sand brick, natural stone, concrete, fiber-cement panels, cement and cement-lime plaster
- for walls and ceilings, for indoor and outdoor application
- for manual application
- as the top finishing coat or – after rough troweling – as base coat plaster for other top finishing coats (plaster category from 0 to III)
- based on cement – formed surface is strong, resistant to weather conditions and mechanical damage
- contains lime providing the plaster with higher coating elasticity and higher resistance to scoring and cracking
- vapour permeable – enables free transport of water vapour and release of humidity by the material upon which it is applied
- easy in application and floating – owing to content of lime, the mortar is very plastic and has very good working parameters
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application, wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 7.5 – 8.0 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Apply the plaster with two coats - base coat and top plaster coat. Apply the mortar manually with a trowel, with uniform coat and level the surface with an H-type darby, leave for initial setting. The moment of floating must be established experimentally in order to prevent plaster from drying too much. Use tool appropriate for expected finishing effect and purpose of the plaster. Protect the plaster against excessive drying, wet it with water, if necessary.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TCW is factory made dry mix manufactured on the basis of high quality mineral binder (cement and lime), quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TCW/CPR.

Mixing ratio water/dry mix	7.5 – 8.0 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 17 kg of mortar for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Max. aggregate grain size	0.5 mm
Min. / max. plaster thickness	5 mm / 30 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mix of specified properties, general purpose (GP), for indoor and outdoor use, on masonry walls, ceilings, posts and partition walls	CE 14
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm^2 - FP:B
Water absorption - category	W0
Water vapour permeability coefficient μ (tabular value)	15/35 (EN 1745:2002, tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg/m^3
Durability. Mass decrement after 25 freeze-thaw cycles	≤ 3%
Durability. Compressive strength decrease after 25 freeze-thaw cycles	≤ 10%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-04-29

LIME-CEMENT PLASTER
ATLAS GOLDEN AGE TWC

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- recommended for plastering surfaces coated with old lime and lime-cement plasters, can also be used on rough surfaces of brick or natural stone
- for manual application
- for walls and ceilings, for indoor and outdoor application
- as the top finishing coat or – after rough troweling – as base coat plaster for other top finishing coats (plaster category from 0 to III)
- based on lime, natural binder used for production of plasters for ages - content of lime determines coating elasticity and resistance to cracking
- contains cement, which improves mortar resistance to weather conditions and mechanical damage
- high vapour permeability – very important factor in case of old, damp substrates - plaster enables free transport of water vapour and release of humidity by the material upon which it is applied
- easy in application and floating – owing to content of lime, the mortar is very plastic and has very good working parameters
- light-grey coating colour – enables easy and economical covering the surface with paint
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application wet the surface with water.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 7.5 – 8.0 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Apply the plaster with two coats - base coat and top plaster coat. Apply the mortar manually with a trowel, with uniform coat and level the surface with an H-type darby, leave for initial setting. The moment of floating must be established experimentally in order to prevent plaster from drying too much. Use tool appropriate for expected finishing effect and purpose of the plaster. Protect the plaster against excessive drying, wet it with water, if necessary.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TWC is factory made dry mix manufactured on the basis of high quality mineral binder (lime and cement), quartz fillers and improvers. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TWC/CPR.

Mixing ratio water/dry mix	7.5 – 8.0 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 17 kg of mortar for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Max. aggregate grain size	0.5 mm
Min. / max. plaster thickness	5 mm / 30 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mix of specified properties, general purpose (GP), for indoor and outdoor use, on masonry walls, ceilings, posts and partition walls	CE 09
Reaction to fire – class	A1
Bonding	≥ 0.3 N / mm^2 - FP:B
Water absorption - category	W0
Water vapour permeability coefficient μ (tabular value)	15/35 (EN 1745:2002, tab.A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W / mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1800 kg / m^3
Durability. Mass decrement after 25 freeze-thaw cycles	≤ 3%
Durability. Compressive strength decrease after 25 freeze-thaw cycles	≤ 10%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-04-29

SCRAPED PLASTER
ATLAS GOLDEN AGE TCL

USE AND PROPERTIES

- recommended for decorative plastering rough surfaces of ceramic and lime-sand brick, natural stone, concrete, cement and cement-lime plaster and renovation plaster
- for manual application
- cement-based – formed surface is resistant to weather conditions and mechanical damage
- vapour permeable – enables free transport of water vapour and release of humidity by the material upon which it is applied
- possibility of dyeing in mass and ordering the plaster in version with mica flakes
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence, residues of paint coats. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Directly before plaster application, wet the surface well with water – until saturation.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 3.5 – 4.0 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after a few minutes since mixing. It is recommended to mix the content of a few bags in a bigger container simultaneously. Remix directly before application. Apply the mortar manually with a trowel, with uniform coat approx. 10 mm thick. Level the resulting surface with a long darby and leave for initial setting. The moment of floating must be established experimentally in order to prevent plaster from drying too much. Perform scraping test – if the mortar does not stick to spikes of a scraper scraping can start. Uniformly scrape the plaster surface with a scraper. Avoid repeated scraping at the same place, as this can result in differences in shade. When the mortar sets, clean the surface with a soft brush. In order to improve plaster resistance against weather conditions, impregnation with ATLAS GOLDEN AGE SH is recommended. While applied plaster is drying, provide appropriate ventilation of rooms. Protect plasters applied outdoors from drying too fast.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set plaster can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TCL is factory made dry mix manufactured on the basis of high quality white cement, quartz and dolomite fillers, modern plasticisers making it easily workable. The product conforms to the PN-EN 998-1 standard. EC Declaration of Performance No. AZW TCL/CPR.

Mixing ratio water/dry mix	3.5 - 4.0 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 15 minutes
Consumption	approx. 18 kg of mortar for 1 m^2 at 10 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Min. / max. plaster thickness	5 mm / 30 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

Factory made plastering mortar of specified properties, renovation (R), for manual or machine application, for indoor and outdoor use, on walls, ceilings, posts and partition walls	CE 13
Reaction to fire – class	A1
Bonding	≥ 0.3 N/mm^2 - FP:B
Water absorption	≥ 0.3 kg / m^2 after 24 hours
Water penetration	≤ 5 mm
Water vapour permeability coefficient μ	15/35
Thermal conductivity coefficient (average tabular value P=50%)	0.67 W/mK ($\lambda_{10, dry}$)
Gross dry density	≤ 1700 kg/m^3
Durability. Mass decrement after 25 freeze-thaw cycles	≤ 3%
Durability. Compressive strength decrease after 25 freeze-thaw cycles	≤ 15%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-04-29

WHITE ADHESIVE MORTAR WITH TRASS
ATLAS GOLDEN AGE TZK-B

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for fixing wall and floor stone, ceramic and mosaic cladding, exposed to significant moisture in operation
- based on white hydraulic binder – prevents discolouration of fixed elements, designed for tiles of high absorptiveness, e.g. marble
- contains trass – mineral of volcanic origin limiting the possibility of efflorescence occurrence on the surface of fixed facing
- very high bonding to substrate – mortar recommended for fixing tiles on difficult, old substrates (degenerated by longtime moisture, salts, biological contamination), can also be used for fixing decorative moulding elements, window frames, trims, stucco elements, etc.
- deformable – absorbs thermal and mechanical strains the cladding is exposed to, may be used for fixing cladding exposed to extremely hard operation conditions
- stable on vertical elements, does not slip, enables fixing cladding from top to bottom
- comfortable in use – extended open time up to 30 minutes
- thick bonding coat (from 2 to 10 mm) – enables fixing cladding without initial substrate leveling and tiles of irregular of profiled back surface
- recommended for plinths and other building elements exposed to moisture
- for indoor and outdoor application
- developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof and frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate should be cleaned of dust, dirt, patina, loose and dusty elements and residues of grease, oils and wax. Remove surface biological contamination and impregnate the cleaned substrate. For excessively absorptive substrates one should use an agent regulating and limiting absorptiveness.

APPLICATION

Prepare the mortar by pouring the dry mix into a container with suitable amount of water (recommended ratio 6.5 – 7.00 liters of water for 25 kg of dry mix) and mixing mechanically until homogenous, free from lumps and separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. The adhesive should be applied upon surface with a steel notched trowel (notch size 4-12 mm) and with thin coat upon tile back side (with the smooth trowel edge). Directly after adhesive application place the tile, move slightly and press against the substrate. After pressing the surface of bonding should be complete, with no free spaces. Position of a tile can be adjusted within approx. 10 minutes since pressing. Leave the joint between tiles of thickness proper for the tile edge size. Grouting can start when the adhesive sets, not earlier however than 24 hours since fixing the tiles. It is recommended to use Renovation Grouting Mortar with Trass ATLAS GOLDEN AGE FG. Apply the mortar in temperature from +5 °C up to +25 °C. During application and just after protect the cladding from precipitation and too fast mortar drying.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to building principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions, in positive temperature (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE TZK-B is factory made dry mix manufactured on the basis of white hydraulic binder with addition of trass flour, fillers and improvers.

Mixing ratio: water/dry mix	6.5 – 7.0 l/25 kg
Pot life	approx. 4 hours
Consumption	approx. 1.5 kg for 1 m² for 1 mm layer thickness
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Bonding to substrate	> 1.00 N / mm²
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2012-06-21

SILICATE PRIMING AGENT ATLAS GOLDEN AGE S-01

USE AND PROPERTIES

- for proper preparation of substrates for ATLAS GOLDEN AGE S-02 silicate paint
- for priming mineral substrates like cement and cement-lime plasters and rough surfaces made of concrete, brick, blocks, hollow brick and other similar ceramic and lime-sand materials
- agent based on potassium silicate – strengthens and unifies substrate absorptiveness, improves paint bonding and reduces its consumption
- may be used for diluting Renovation Silicate Paint S-02 used for base coat painting
- transparent after drying
- for indoor and outdoor application

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be dry, stable and free from layers which would impair emulsion bonding, in particular dust, dirt, wax and grease. Carefully remove any old paints and other layers poorly bonded to the substrate and dispersion paint coatings.

APPLICATION

ATLAS GOLDEN AGE S-01 is manufactured as a ready-to-use product. It should not be thinned or mixed with other materials. Apply with thin uniform coat with a roller or a paintbrush. In case of highly absorbable substrates priming can be repeated, apply the second coat crosswise to the first one. The second coat must not be applied earlier than 4 hours since application of the first one. The time of drying of ATLAS GOLDEN AGE S-01 is approx. 30 min, depending on substrate, ambient temperature and relative air humidity. Substrates to be painted with silicate paint must be primed at least 4 hours earlier. When diluting ATLAS GOLDEN AGE S-02 silicate paint, ATLAS GOLDEN AGE S-01 can be added in volume not exceeding 7% of the paint volume. **Note!** Before painting, thoroughly protect any neighbouring elements, such as window panes, frames and flashings, because dry stains of silicate primer are difficult to remove without the risk of damaging the substrate.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The agent must be transported and stored in tightly sealed containers, in dry conditions (most preferably on pallets).
- Keep out of the reach of children
- ATLAS GOLDEN AGE S-01 priming paint; maximum content of VOC in the product 7.39 g/l, maximum allowable VOC content in the product 30 g/l.

TECHNICAL DATA

ATLAS GOLDEN AGE S-01 silicate priming agent is manufactured on the basis of potassium silicate.

Consumption	approx. 0.2 kg / 1 m²
Emulsion preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	plastic drums 5 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-03-17

SILICATE FAÇADE PAINT
ATLAS GOLDEN AGE S-02

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for painting mineral substrates like cement and cement-lime plasters and rough substrates made of concrete, brick, hollow brick and other similar ceramic or lime-sand-based materials
- for original painting and upon substrates exposed to dampness, both in historic and modern buildings
- for indoor and outdoor application
- perfectly reflects texture of painted surface (without smoothing effect) and has natural matte appearance
- rich colour palette - 392 ready recipes and possibility of prepration of paint in other colours depending on individual needs, also colours based on samples of the original material
- forms mineral coat of excellent water vapour permeability, thus ensures free diffusion of water vapour and evaporation of moisture from substrates it is applied upon
- strong bonding – paint reacts chemically with substrate in the silicification process, penetrates structure of substrate and forms very durable bond structure
- highly resistant to weathering, atmospheric precipitation and any types of aggressive components of the substrate and of the environment
- alkaline reaction resulting from properties of water glass reduces susceptibility of painted surfaces to development of microorganisms

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be dry, stable and free from layers which would impair paint bonding, in particular dust, dirt, wax and grease. Carefully remove any old paints and other layers poorly bonded to substrate and dispersion paint coatings. Before paint application, prime the surface with ATLAS GOLDEN AGE S-01 silicate priming agent.

APPLICATION

The paint is delivered as a ready to use product. After opening, mix the mass in order to equalize consistency. Dilute the paint with ATLAS GOLDEN AGE S-01 agent added in volume not exceeding 7% of the paint volume (0.7 liters of agent to one 10 l packaging of paint). The assumed dilution ratio has to be preserved for the whole painted surface. Execute final painting with undiluted paint. Apply paint with thin uniform coat with a paintbrush, a roller or a spray gun. Paint can be applied with one or two coats depending on needs and absorbability and structure of the substrate. The second coat can be applied when the first one dries. Paint should be applied in a continuous manner, "wet-on-wet", avoid breaks or painting over partly dried coats. The time of drying is approx. 2 to 6 hours, depending on substrate, ambient temperature and relative air humidity. Technological breaks should be planned in advance, e.g. in corners and angles of the building, along cornices, pilasters or other architectural division lines. During application and drying, protect the painted surface from direct sunlight, wind and precipitation. It is recommended to use a protective net on scaffolding.

Note: To avoid differences in shade during coloured paint application, each surface should be painted with paint of the same production date. Painting surfaces of different texture and technical parameters can result in two different shades of the same colour.

Before painting, thoroughly protect any neighbouring elements, such as window panes, frames and flashings, because dry stains of silicate paint are difficult to remove without the risk of damaging the substrate.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The paint must be transported and stored in tightly sealed buckets, in dry conditions (most preferably on pallets).
- Harmful to aquatic life with long lasting effects. Keep out of reach of children. Avoid release to the environment. Dispose of contents/container to appropriately labeled containers designed for selective waste treatment, emptied by an authorized company. Follow the instructions of the Safety Data Sheet.
- ATLAS GOLDEN AGE S-02 silicate façade paint; maximum content of VOC in the product 22.29 g/l, maximum allowable VOC content in the product 40 g/l.

TECHNICAL DATA

ATLAS GOLDEN AGE S-02 paint is manufactured on the basis of potassium silicate. Dyed with inorganic pigments - resistant to alkali and UV radiation.

Product density	approx. 1.5 g/cm^3
Bonding grade (according to PN-80/C-81531)	1
Consumption	approx. 0.2 l of paint for 1 m^2 (on smooth surface)
Paint preparation, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	plastic buckets 10 l

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-03-17

SILICONE PRIMING AGENT ATLAS GOLDEN AGE N-01

USE AND PROPERTIES

- for proper preparation of substrates for ATLAS GOLDEN AGE N-02 silicone paint
- for priming mineral substrates like cement and cement-lime plasters and rough surfaces made of concrete, brick, blocks, hollow brick and other similar ceramic and lime-sand materials
- agent based on silicone dispersion – strengthens and unifies substrate absorptiveness, improves paint bonding and reduces its consumption
- transparent after drying
- forms micro-porous structure, ensures free diffusion of water vapour and evaporation of humidity from the material it is applied upon
- hydrophobic
- for indoor and outdoor application

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be dry, stable and free from layers which would impair emulsion bonding, in particular dust, dirt, wax and grease. Carefully remove any old paints and other layers poorly bonded to the substrate and dispersion paint coatings.

APPLICATION

ATLAS GOLDEN AGE N-01 is manufactured as a ready-to-use product. It should not be thinned or mixed with other materials. Apply with thin uniform coat with a roller or a paintbrush. In case of highly absorbable substrates priming can be repeated, apply the second coat crosswise to the first one. The second coat must not be applied earlier than 4 hours since application of the first one. The time of drying of ATLAS GOLDEN AGE N-01 is approx. 30 min, depending on substrate, ambient temperature and relative air humidity.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The agent must be transported and stored in tightly sealed containers, in dry conditions (most preferably on pallets).
- Keep out of reach of children.
- ATLAS GOLDEN AGE N-01 priming agent: maximum content of VOC in the product 19.93 g/l, maximum allowable VOC content in the product 30 g/l.

TECHNICAL DATA

ATLAS GOLDEN AGE N-01 silicone priming agent is manufactured on the basis of silicone dispersion.

Consumption	approx. 0.2 kg / 1 m²
Emulsion preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Packaging	plastic drums 5 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-03-17

SILICONE FAÇADE PAINT
ATLAS GOLDEN AGE N-02

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- for painting mineral substrates like cement and cement-lime plasters and rough substrates made of concrete, brick, hollow brick and other similar ceramic or lime-sand-based materials
- for original painting and upon substrates exposed to dampness, both in historic and modern buildings
- for indoor and outdoor application
- resistant to pollution, self-cleaning – particles of dust and other pollution are washed away from surface by rainfall, owing to which the painted surface retains aesthetic appearance for longer time and does not require repeated conservation
- recommended for painting buildings situated in areas particularly exposed to pollution – close to heavy traffic communication routes, industrial areas, etc.
- hydrophobic – non absorbable, resistant to water action, protects substrate against water and dissolved harmful chemical compounds
- resistant to biological contamination – effectively prevents development of algae, fungi and lichens on the painted surface
- vapour permeable – characterized by low diffusion resistance coefficient, forms coating ensuring free diffusion of water vapour and evaporation of moisture from substrate it is applied upon
- durable – resistant to weathering, precipitation, UV radiation and any types of aggressive components of the substrate and of the environment
- very good coating
- rich colour palette - 655 ready recipes and possibility of preparation of paint in other colours depending on individual needs, also colours based on samples of the original material

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be dry, stable and free from layers which would impair paint bonding, in particular dust, dirt, wax and grease. Carefully remove any old paints and other layers poorly bonded to the substrate and dispersion paint coatings. Before paint application, prime the surface with ATLAS GOLDEN AGE N-01 silicone priming agent.

APPLICATION

The paint is delivered as a ready to use product. After opening, mix the mass in order to equalize consistency. Apply paint with thin uniform coat with a paintbrush, a roller or a spray gun. Paint can be applied with one or two coats depending on needs, absorbability and structure of the substrate. The second coat can be applied when the first one dries. Paint should be applied in a continuous manner, "wet-on-wet", avoid breaks or painting over partly dried coats. The time of drying is approx. 2 to 6 hours, depending on substrate, ambient temperature and relative air humidity. Technological breaks should be planned in advance, e.g. in corners and angles of the building, along cornices, pilasters or other architectural division lines. During application and drying, protect the painted surface from direct sunlight, wind and precipitation. It is recommended to use a protective net on scaffolding.

Note: In order to avoid differences in shade during coloured paint application, each surface should be painted with the paint of the same production date. Painting surfaces of different texture and technical parameters can result in achieving two different shades of the same colour.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed buckets, in dry conditions (most preferably on pallets).
- Harmful to aquatic life with long lasting effects. Keep out of reach of children. Avoid release to the environment. Dispose of contents/container to appropriately labeled containers designed for selective waste treatment, emptied by an authorized company. Follow the instructions of the Safety Data Sheet.
- ATLAS GOLDEN AGE N-02 silicone façade paint; maximum content of VOC in the product 35.72 g/l, maximum allowable VOC content in the product 40 g/l.

TECHNICAL DATA

ATLAS GOLDEN AGE N-02 pant is manufactured on the basis of water dispersion of organic resins. Dyed mainly with inorganic pigments - resistant to alkali and UV radiation.

Product density	approx. 1.5 g/cm^3
Bonding grade (according to PN-80/C-81531)	1
Consumption	approx. 0.125 l of paint for 1 m^2 (on smooth surface)
Paint preparation, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	plastic buckets 10 l

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-03-17

GLAZING MINERAL PAINT
ATLAS GOLDEN AGE L

PLASTER RESTORATION SYSTEM

USE AND PROPERTIES

- recommended for application upon historical objects for colour integration of substrates executed with various materials, e.g. after filling cavities
- can be used for original or renovating painting, upon old and strongly bonded paint coatings
- designed for painting mineral substrates like rough surfaces made of natural stone, brick, blocks, hollow brick and other similar ceramic or lime-and-sand materials. It can also be applied upon cement, cement-lime and lime plasters
- characterized by low coating strength allowing to achieve effect of semi-transparency (where the substrate shows through) - therefore, the resulting coat preserves natural appearance and texture of the painted surface and exactly reproduces original appearance of the substrate
- rich colour palette of 112 ready to use recipes; there is a possibility to prepare a paint of a different colour, depending on individual needs, also based on a sample of the original material
- vapour permeable – provides free diffusion of water vapour and evaporation of moisture from the substrate
- contains hydrophobic components protecting painted surface against humidity penetrating from the outside
- paint coating is durable, resistant to weathering, precipitation and any types of aggressive components of the substrate and of the environment

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate should be dry and sound, free of pollution which would impair paint bonding, especially dust, dirt, wax and grease. Old, low quality paint coats and other coatings of uncertain bonding have to be removed.

APPLICATION

The paint is supplied in the form of dry mix, ready to use after mixing with water. It s prepared in two stages. The first consists in pouring the bag contents into water (ratio approx. 5.0÷6.0 l for 10 kg of dry mix) and mixing until homogenous in structure and colour. When the preliminary mix thickens (after approx. 30 minutes), pour the remaining 3.0 ÷ 4.0 l of water so that the final ratio does not exceed 10 l of water for 10 kg of dry mix. Mix thoroughly. Keep the same ratio for the whole surface. The paint has to be used up within approx. 10 hours. Do not add water during painting. Apply the paint with thin uniform coat with a brush. Depending on substrate absorptiveness, structure and intended aesthetic effect, apply one or two coats of paint. Apply the second coat when the first one dries. Apply the paint continuously (using the "wet on wet" method), avoid breaks in work and painting on partly dried coats. The time of drying is approx. 2 – 6 hours, depending on substrate, temperature and relative air humidity. Technological breaks have to be planned in advance, e.g. in the corners and angles of the building, along cornices, pilasters or other architectural division lines. During application and drying, protect the painted surface from direct sunlight, wind and precipitation. It is recommended to use protective nets on scaffolding. **Note! To avoid any differences in colour shades of the paint, each surface should be coated with paint of the same production date. Painting surfaces differing in structure and technological parameters can result in the effect of various shades of the same paint colour.**

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 24 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- ATLAS GOLDEN AGE L paint for external walls: maximum VOC content in the product 31.95 g/l, allowable VOC content in the product 40 g/l.

TECHNICAL DATA

ATLAS GOLDEN AGE L is factory made dry mix manufactured on the basis of hydrated lime, quartz fillers and powdered resins. Inorganic pigments – resistant to alkali and UV radiation are used for pigmentation.

Mixing ratio: water/dry mix	I mixing 5.0 – 6.0 l/10 kg II mixing 4.0 – 5.0 l/10 kg
Pot life	approx. 10 hours
Consumption	approx. 0.15 ÷ 0.20 kg of paint for 1 m^2
Paint preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 10 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2009-06-16

ATLAS GOLDEN AGE

moulding mortars


ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* MINERALNA * ZAPRAWA DO ODLEWÓW
F-01
dokonale wypełnia przestrzenie w formach
wyjątkowa gładkość
wysoka wytrzymałość
mrozoodporność
ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* SZPACHLA * DO POWLEKANIA RDZENI PROFILI CIĄGNIONYCH
SM
wzmocniona włóknami
drobnoziarnista - granulacja kruszywa do 0,5 mm
ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* ZAPRAWA * DO ODLEWÓW BARWIONA W MASIE DROBNOZIARNISTA
ZBM-05-36
szeroka gama kolorystyczna
odporna na UV
mrozoodporna


ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* ZAPRAWA * DO ODLEWÓW BARWIONA W MASIE GRUBOZIARNISTA
ZBM-25-36
szeroka gama kolorystyczna
mrozoodporna
odporna na UV
ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* SZYBKOWIĄŻĄCA * ZAPRAWA DO ODLEWÓW BARWIONA W MASIE
ZBM-R-25-36
szeroka gama kolorystyczna
mrozoodporna
odporna na UV
ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* ZAPRAWA * DO ODLEWÓW I RDZENI PROFILI CIĄGNIONYCH LEKKA
ZMP
mała gęstość
mrozoodporność
ograniczony skurcz
ATLAS ZŁOTY WIEK
ATLAS
SPECJALISTYCZNE WYROBY DO PRAC KONSERWATORSKICH
* SZYBKOWIĄŻĄCA * ZAPRAWA DO ODLEWÓW I RDZENI PROFILI CIĄGNIONYCH LEKKA
ZMP-R
mała gęstość
mrozoodporność
ograniczony skurcz

USE AND PROPERTIES

- for making castings (in open moulds) and filling moulds
- for making construction elements (banisters, balusters, cantilevers) and decorative architectonic details
- mineral – based on hydraulic binder
- combines favorable working parameters and easy formation of uniform casts, characteristic for gypsum mortars, with high resistance and advantages offered by cement binder
- available in white colour
- fine-aggregate (grain size up to 0.5 mm) – can be a perfect imitation of gypsum masses
- characterized by low absorptivity and very low contraction
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- for indoor and outdoor application
- waterproof
- frost resistant

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 5.0 – 5.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive mortar aeration. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place not earlier than after approx. 24 hours.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE F-01 is factory made dry mix manufactured on the basis of high quality hydraulic binder and quartz fillers with addition of liquefying substances, agents improving adhesion and resistance to weather conditions.

Mixing ratio water/dry mix	5.0 – 5.25 l/25 kg
Pot life	approx.
Compressive strength	approx. 25 N/mm^2
Flexural strength	approx. 6 N/mm^2
Contraction	0.22 mm/rm
Total water absorption	approx. 2%
Porosity	approx. 5%
Consumption	approx. 2 kg of mortar for 1 dm^3
Mortar preparation and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

MORTAR FOR DRAWN MOULDINGS ATLAS GOLDEN AGE ZMP

USE AND PROPERTIES

- for making castings or cores of drawn mouldings
- volume weight twice as light as cement-based moulding mortars
- contains very light silicate fillers (glass granules filled with air) – enables making large size elements of small weight. Finished elements are light and easy to mount.
- standard setting time – demoulding possible after 24 hours
- manufactured in vintage white colour
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence and other contamination. Hack off poorly bonded surface pieces and remove loose or weak parts.

APPLICATION

Casting

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 4.5 – 5.25 l/15 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive aeration of the mortar. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place not earlier than after approx. 24 hours. Surface of the resulting cast is very smooth.

Drawn profile core making

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 3 l/15 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive aeration of the mortar. The mortar is ready to use after approx. 5 minutes and remixing. Depending on desired thickness of the core, the ready mortar is applied with one or more layers and then the profile is drawn in a continuous manner. The surface of the core after profile passing is rough. In case of very thick or long mouldings additional strengthening of the profile with reinforcement in the form of, e.g. steel mesh is recommended, keep appropriate covering. Demoulding is possible after 24 hours. Before the application of ATLAS GOLDEN AGE SM-FINISZ finishing coat, surface of the core must be properly set.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE ZMP is factory made dry mix manufactured on the basis of high quality Portland cement, hydrated lime, fillers and improvers.

Mixing ratio: water/dry mix	4.5 – 5.25 l/15 kg (casting) 3.0 l/15 kg (core making)
Specific weight	max. 0.8 kg/dm^3
Pot life	approx. 2 hours
Consumption	approx. 1.0 kg of mortar for 1 dm^3
Mortar preparation and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 15 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

FAST-SETTING MORTAR FOR DRAWN MOULDINGS ATLAS GOLDEN AGE ZMP-R

USE AND PROPERTIES

- for making the internal layer (core) of castings or cores of drawn mouldings
- fast setting – possibility of demoulding already after 3 hours ensures quick progress of moulding works and economical rotation of forms
- volume weight twice as light as cement-based moulding mortars
- contains very light silicate fillers (glass granules filled with air) – enables making large size elements of small weight. Finished elements are light and easy to mount.
- manufactured in grey colour
- for indoor and outdoor application
- waterproof
- frost resistant

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be sound, free from dust, dirt, efflorescence and other contamination. Hack off poorly bonded surface pieces and remove loose or weak parts.

APPLICATION

Casting

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 4.5 – 5.25 l/15 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive aeration of the mortar. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place after approx. 3 hours. Surface of the resulting cast is very smooth.

Drawn profile core making

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 3.0 l/15 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive aeration of the mortar. The mortar is ready to use after approx. 5 minutes and remixing. Depending on desired thickness of the core, the ready mortar is applied with one or more layers and then the profile is drawn in a continuous manner. The surface of the core after profile passing is rough. In case of very thick or long mouldings additional strengthening of the profile with reinforcement in the form of, e. g. steel mesh is recommended, keep appropriate cover. Demoulding is possible after 3 hours. Before the application of ATLAS GOLDEN AGE SM-FINISZ finishing coat, surface of the core must be properly set.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE ZMP-R is factory made dry mix manufactured on the basis of high quality Portland cement, hydrated lime, fillers and improvers.

Mixing ratio: water/dry mix	4.5 – 5.25 l/15 kg (casting) 3.0 l/15 kg (core making)
Specific weight	max. 0.8 kg/dm^3
Pot life	approx. 40 minutes
Consumption	approx. 1.0 kg of mortar for 1 dm^3
Mortar preparation and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 15 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2009-06-16

USE AND PROPERTIES

- for execution of finishing coats of drawn mouldings and for surface leveling and filling small gaps in the substrate
- recommended for finishing surface of cores executed with ATLAS GOLDEN AGE ZMP or ATLAS GOLDEN AGE ZMP-R mortars
- for application upon concrete and brick substrates and upon cement and lime plasters
- for indoor and outdoor application
- recommended coat thickness 3 – 10 mm
- contains special polypropylene fibres additionally reinforcing the coat and limiting the possibility of occurrence of cracks
- hydrophobic
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- manufactured in white colour

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. When filling gaps, the substrate must be sound, free from dust, dirt and other contamination. Hack off poorly bonded surface pieces and remove loose or weak parts with a steel brush. Before application of ATLAS GOLDEN AGE SM-FINISZ finishing coat, the cleaned surface must be damp but not wet. If reduction of substrate absorptiveness is necessary, application of ATLAS UNI-GRUNT priming emulsion is recommended.

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio: 7.0 l/ 25 kg) and mix mechanically until homogenous, lump free and without separating liquid. The mortar is ready to use after approx. 5 minutes and remixing. Apply the mortar upon substrate with coat of even thickness and then shape in a continuous manner using a moulding profile. The open time (between application of the mortar and drawing the profile) depends on absorptivity of the substrate, ambient temperature and mortar consistency. In case of filling gaps, filling larger cavities first is recommended. Protect freshly applied coats from excessive drying.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE SM-FINISZ is factory made dry mix manufactured on the basis of high quality hydraulic binder, quartz fillers and additives.

Mixing ratio: water/dry mix	7 l/ 25 kg
Pot life	approx. 2 hours
Open time	approx. 15 minutes
Consumption	approx. 1.5 kg of mortar for 1 m^2
Mortar preparation and ambient temperature during work	from +5°C to +25°C
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

MORTAR FOR CASTINGS
ATLAS GOLDEN AGE ZBM-05

USE AND PROPERTIES

- for making castings of architectural details and filling moulding forms
- finished elements can be installed indoors and outdoors
- mineral – based on hydraulic binder
- fine-aggregate - aggregate grain size up to 0.5 mm
- rich colour palette – 112 ready recipes, possibility of mortar dyeing with other colours, depending on individual needs - based on samples of the original material
- easy to use – consistency and working parameters enable fast and accurate form filling
- after setting, characterized by low absorptivity, high mechanical parameters and very good frost resistance
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof
- frost resistant

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive mortar aeration. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place not earlier than after approx. 24-48 hours, depending on the casting size. Time of demoulding depends to a significant degree on the ambient temperature and can extend in low temperature. Depending on needs and designed aesthetic effect, castings can be painted with ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint, or ATLAS GOLDEN AGE L glazing paint. Apart from painting, hydrophobization of the whole surface with ATLAS GOLDEN AGE SH compound can be executed as additional protection against weather conditions.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE ZBM-05 is factory made dry mix manufactured on the basis of high quality hydraulic binder, fillers and improvers. Inorganic pigments resistant to alkali and UV radiation are used for mix dyeing.

Mixing ratio water/dry mix	4.5 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 20 minutes
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Total water absorption	up to 8%
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Max. aggregate grain size	0.5 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

MORTAR FOR CASTINGS
ATLAS GOLDEN AGE ZBM-25

USE AND PROPERTIES

- for making castings of architectural details and filling moulding forms
- recommended for making large size castings
- finished elements can be installed indoors and outdoors
- mineral – based on hydraulic binder
- coarse-aggregate - aggregate grain size up to 2.5 mm
- standard setting time – demoulding possible after 24 hours
- rich colour palette – 112 ready recipes, possibility of mortar dyeing with other colours, depending on individual needs - based on samples of the original material
- easy to use – consistency and working parameters enable fast and accurate form filling
- after setting, characterized by low absorptivity, high mechanical parameters and very good frost resistance
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof
- frost resistant

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive mortar aeration. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place not earlier than after approx. 24-48 hours, depending on the casting size. Time of demoulding depends to a significant degree on the ambient temperature and can extend in low temperature. Depending on needs and designed aesthetic effect, castings can be painted with ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint, or ATLAS GOLDEN AGE L glazing paint. Apart from painting, hydrophobization of the whole surface with ATLAS GOLDEN AGE SH agent can be executed as additional protection against weather conditions.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE ZBM-25 is factory made dry mix manufactured on the basis of high quality hydraulic binder, fillers and improvers. Inorganic pigments resistant to alkali and UV radiation are used for mix dyeing.

Mixing ratio water/dry mix	4.5 l/25 kg
Pot life	approx. 2 hours
Open time	approx. 20 minutes
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Total water absorption	up to 8%
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Max. aggregate grain size	2.5 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

MORTAR FOR CASTINGS
ATLAS GOLDEN AGE ZBM-25 R

USE AND PROPERTIES

- for making castings of architectural details and filling moulding forms
- recommended for making large size castings with fast demoulding possibility
- finished elements can be installed indoors and outdoors
- mineral – based on hydraulic binder
- coarse-aggregate - aggregate grain size up to 2.5 mm
- fast setting – possibility of demoulding already after 3 hours ensures quick progress of moulding works and economical rotation of forms
- rich colour palette – 112 ready recipes, possibility of mortar dyeing with other colours, depending on individual needs - based on samples of the original material
- easy to use – consistency and working parameters enable fast and accurate form filling
- after setting, characterized by low absorptivity, high mechanical parameters and very good frost resistance
- material developed specifically for the needs of renovation of heritage buildings – characterized by optimally combined resistance, physical and chemical properties
- waterproof
- frost resistant

APPLICATION

Pour the dry mix from the bag into a clean container with suitable amount of water (recommended ratio 4.5 l/25 kg) and mix mechanically until homogenous, lump free and without separating liquid. Use low speed mixer in order to avoid excessive mortar aeration. The mortar is ready to use after approx. 5 minutes and remixing. Pour the prepared mortar slowly and carefully into previously prepared moulds protected with anti-adhesive agents. Demoulding of cast elements can take place already after 3 hours. Time of demoulding depends to a significant degree on the ambient temperature and can extend in low temperature. Depending on needs and designed aesthetic effect, castings can be painted with ATLAS GOLDEN AGE S-02 silicate paint or ATLAS GOLDEN AGE N-02 silicone paint, or ATLAS GOLDEN AGE L glazing paint. Apart from painting, hydrophobization of the whole surface with ATLAS GOLDEN AGE SH agent can be executed as additional protection against weather conditions.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with ATLAS SZOP agent.
- The shelf life of the product is 12 months from the production date shown on the packaging. The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets).
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE ZBM-25 R is factory made dry mix manufactured on the basis of high quality Portland cement, quartz fillers and improvers. Inorganic pigments resistant to alkali and UV radiation are used for mix dyeing.

Mixing ratio: water/dry mix	4.5 l/25 kg
Pot life	approx. 2 hours
Consumption	approx. 1.6 kg of mortar for 1 dm^3
Total water absorption	up to 8%
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Max. aggregate grain size	2.5 mm
Packaging	paper bags 25 kg
Content of soluble chromium (VI) in ready-to-use mix	≤ 0.0002%

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2013-09-16

primers, preparations, impregnators

SUBSTRATE STRENGTHENING | **SUBSTRATE PREPARATION** | **WALL RESTORATION SYSTEM** | **HYDROPHOBISATION**

SUBSTRATE STRENGTHENING | **SUBSTRATE PREPARATION** | **PLASTER RESTORATION SYSTEM** | **HYDROPHOBISATION**

SUBSTRATE STRENGTHENING | **SUBSTRATE PREPARATION** | **WALL RESTORATION SYSTEM** | **HYDROPHOBISATION**

REINFORCING AGENT
ATLAS GOLDEN AGE SW 100

USE AND PROPERTIES

- modern one-component agent for reinforcing typical construction substrates
- for impregnation of elements made of natural stone, brick and other construction materials degraded by time and weather
- general-purpose – can be used both for initial and structural impregnation
- does not act as hydrophobic agent, therefore treated surface can still be cleaned and repaired with mineral mortars
- does not seal the material pores and does not limit its water vapour permeability
- characterized by medium degree of precipitated gel content, at the level of 10% - recommended for reinforcement of well preserved or hardly absorbable substrates
- high penetration ability – penetrates deep into the structure of weakened substrate and reinforces it uniformly
- resistant to alkali and weather conditions, e.g. acid rains
- one-component – easy to use

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be cleaned from dust, dirt, patina, efflorescence, loose and crumbling pieces and residues of grease, oils and biological contamination. Patina and other permanent pollution of the substrate surface weaken the agent action, as they limit its absorption. In case of very poor or weathered substrate, application of ATLAS GOLDEN AGE SW 300 is recommended.

APPLICATION

ATLAS GOLDEN AGE SW 100 is manufactured as a ready to use product. It must not be mixed with other materials, diluted or thickened. The agent is applied similarly to paints, once or twice, depending on the substrate type and absorptiveness. Special care should be taken to ensure uniform spreading of the agent upon treated substrate. The second coat can be applied when the first one has dries fully (after approx. 6 hours). Freshly impregnated surfaces should be protected from precipitation for a few days more.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 24 months from the production date shown on the packaging. The agent must be stored in original, tightly sealed containers in dry conditions, temperature between +5°C to +20°C, away from open fire sources. Protect against overheating. Limit the contact of open container with air to necessary minimum.
- Highly flammable product. Irritates eyes, airways and skin. Possible harmful effect upon child in mother's womb (Rep. cat. 3). Harmful, can damage lungs on ingestion. Vapors can cause sleepiness and dizziness. Harmful when inhaled, creates serious hazard to health in result of long time exposure. Harmful to water organisms; can cause long lasting adverse changes in water environment. Harmful. Contains TEOS and toluene. Keep out of reach of children. Do not inhale vapors or aerosol. Wear appropriate protective clothing and protective gloves. Do not discharge into sewer system and dispose of the product and the packaging in a safe way. Avoid discharges into environment. Follow the instructions of the Safety Data Sheet. In case of ingestion do not induce vomiting, immediately seek doctor's advice and show the packaging or label.

TECHNICAL DATA

ATLAS GOLDEN AGE SW 100 reinforcement compound is manufactured from silicone resin and organic solvent.

Density	1.0 g/cm^3
Precipitated gel content	10%
Consumption	approx. 0.1 – 0.3. l of agent for 1 m^2
Active agent content	25%
Substrate and ambient temperature during work	from +5°C to +20°C
Packaging	steel drums 1 kg, 5 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-04-11

REINFORCING AGENT
ATLAS GOLDEN AGE SW 300

USE AND PROPERTIES

- modern one-component agent for reinforcing typical construction substrates
- for impregnation of elements made of natural stone, brick and other construction materials degraded by time and weather
- general-purpose – can be used both for initial and structural impregnation
- does not act as hydrophobic agent, therefore treated surface can still be cleaned and repaired with mineral mortars
- does not seal material pores and does not limit its water vapour permeability
- characterized by high degree of precipitated gel content, at the level of 30% - results in significant improvement of durability of impregnated substrates, recommended for reinforcement of very weak substrates
- high penetration ability – penetrates deep into the structure of weakened substrate and reinforces it uniformly
- resistant to alkali and weather conditions, e.g. acid rains
- one-component – easy to use

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate must be cleaned from dust, dirt, patina, efflorescence, loose and crumbling pieces and residues of grease, oils and biological contamination. Patina and other permanent pollution of the substrate surface weaken the agent action, as they limit its absorption. In case of very poor or weathered substrate, initial impregnation with ATLAS GOLDEN AGE SW 300 is recommended, than cleaning and final proper reinforcing then.

APPLICATION

ATLAS GOLDEN AGE SW 300 is manufactured as a ready to use product. It must not be mixed with other materials, diluted or thickened. The agent is applied similarly to paints, once or twice, depending on substrate type and absorptiveness. Special care should be taken to ensure uniform spreading of the agent upon treated substrate. The second coat can be applied when the first one has dries fully (after approx. 6 hours). Freshly impregnated surfaces should be protected from precipitation for a few days more.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 24 months from the production date shown on the packaging. The agent must be stored in original, tightly sealed containers in dry conditions, temperature between +5°C to +20°C, away from open fire sources. Protect against overheating. Limit the contact of open container with the air to the necessary minimum.
- Flammable product. Irritates skin. Harmful when inhaled, creates serious hazard to health in result of long time exposure. Harmful to water organisms; can cause long lasting adverse changes in water environment. Possible harmful effect upon child in mother's womb (Rep. cat. 3). Harmful, can damage lungs on ingestion. Vapors can cause sleepiness and dizziness. Harmful. Contains TEOS and toluene. Keep out of the reach of children. do not inhale vapors or aerosol. Wear appropriate protective clothing and protective gloves. Do not discharge into sewer system and dispose of the product and the packaging in a safe way. Avoid discharges into environment. Follow the instructions of the Safety Data Sheet. In case of ingestion do not induce vomiting, immediately seek doctor's advice and show the packaging or label.

TECHNICAL DATA

ATLAS GOLDEN AGE SW 300 reinforcement compound is manufactured from silicone resin and organic solvent.

Density	1.0 g/cm^3
Precipitated gel content	30%
Consumption	approx. 0.1 – 0.3. l of agent for 1m^2
Active agent content	75%
Substrate and ambient temperature during work	from +5°C to +20°C
Packaging	steel drums 1 kg, 5 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-04-11

DISPERSION PRIMING AGENT DPG
ATLAS GOLDEN AGE DPG

USE AND PROPERTIES
- for priming substrates before the application of ATLAS GOLDEN AGE plasters
- forms rough coat strongly bonded to substrate – improves bonding of the subsequent layers
- forms chemical barrier protecting the substrate from the subsequent coat influence – limits their reciprocal influence
- vapour permeable
- manufactured in white colour

SUBSTRATE PREPARATION
The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. The substrate should be cleaned of dust, dirt, patina, loose and dusty elements and residues of grease, oils and wax.

APPLICATION
The agent is manufactured as a ready to use product. It must not be mixed with other materials, diluted or thickened. Mix the mass in packaging before application. Apply with uniform coat, with a roller or a paintbrush. Further works may begin when agent dries, not earlier than 4 – 6 hours since application.

REMARKS
- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to building principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The agent must be transported and stored in tightly sealed buckets, in dry conditions, in positive temperature. Protect against overheating.
- Follow the instructions of the Safety Data Sheet..

TECHNICAL DATA
ATLAS GOLDEN AGE DPG is an one-component agent manufactured on the basis of acrylic resins with addition of quartz aggregate.

Product density	approx. 1.5 g/cm^2
Bonding to substrate	> 1.00 N / mm^2
Consumption	approx. 0.3 kg / 1 m^2
Mortar preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Further work after priming	after approx. 6 hours
Packaging	plastic buckets 5 kg, 25 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2012-06-19

SILICONE HYDROPHOBIC AGENT ATLAS GOLDEN AGE SH

USE AND PROPERTIES

- hydrophobization and protection against adverse environment action of absorptive stone materials and other typical construction substrates, e.g. ceramic and silicate brick, aerated concrete, concrete, paving blocks and cement tiles
- after solvent evaporation, the active agent reacts with air components and with water kept in material pores, therefore reduces the surface absorptiveness
- high penetration ability – due to low viscosity and-small molecule structure, substrate deeply and ensures optimum hydrophobization of the surface
- durable and resistant to alkali, therefore the impregnation treatment does not have to be repeated periodically
- does not deteriorate properties of protected materials in terms of gas and water vapor diffusion, keeps pores open

SUBSTRATE PREPARATION

The method of surface cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. Before impregnation, the substrate must be cleaned from dust, dirt, patina, efflorescence, loose and crumbling pieces and residues of grease, oils and wax. Any holes in the substrate should be repaired prior to hydrophobic treatment. Note! ATLAS GOLDEN AGE SH must not be used on substrates affected with salt corrosion, as it may intensify the process.

APPLICATION

ATLAS GOLDEN AGE SH is manufactured as a ready to use product. It must not be mixed with other materials, diluted or thickened. The agent is applied similarly to paints, once or twice, depending on substrate type and absorptiveness. Special care should be taken to ensure uniform spreading of the agent upon treated substrate. The second coat can be applied when the first one has dries fully (after approx. 6 hours). Freshly impregnated surfaces should be protected from precipitation for a few days more. Note! Do not use on substrates containing polystyrene or other building materials not resistant to organic solvents (e.g. expansion joint sealants, latex materials) at the depth of penetration of agent.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The product must be stored and transported in original, tightly sealed containers in dry conditions and positive temperatures between +5°C and +20°C. Protect against overheating. During storage observe OHS regulations like for solvent-based paints and keep storage conditions like for flammable materials. Limit the contact of open container with air to necessary minimum.
- Contains trimethoxy(ethyl)silane. Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing spray. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Store in a well ventilated place. Keep container tightly closed. Follow the instructions of the Safety Data Sheet.

TECHNICAL DATA

ATLAS GOLDEN AGE SH is an one-component solution of silicone dispersion in organic solvent.

Density	0.8 g/cm^3
Flash-point	59 °C
Consumption, depending on substrate type and absorptiveness.	approx. 0.1-0.3 l of agent for 1 m^2
Substrate and ambient temperature during work	from +5°C to +20°C
Packaging	steel containers 5 kg, cans 1 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2016-02-11

HYDROPHOBIC PREPARATION ATLAS GOLDEN AGE WH

USE AND PROPERTIES

- water, hydrophobic impregnant based on oxosilanes
- for protection against water action of mineral, porous construction substrates – stone elements (e.g. sandstone), face bricks (ceramic and silicate), aerated concrete, concrete, setts, cement slabs
- can be used for hydrophobization of mineral renders used in external thermal insulation
- limits the substrate absorptiveness – protects against rainwater and structural penetration of harmful chemicals diluted in water
- improves resistance of impregnated surface to soiling, efflorescence and biological corrosion
- resistant to alkalis – can be used for protection of fresh renovation plasters, new joints and face walls after cavities re - profiling.
- durable – resistant to UV radiation
- solvent – free – safe for impregnated substrate, does not cause substrate discoloration
- characterized by neutral odour – can be used indoors
- does not deteriorate properties of protected materials in terms of gas and water vapor diffusion, keeps pores open

RANGE OF USE

- impregnation of face walls made of brick or stone, after previous conservatory actions and filling cavities in joints and wall elements with the use of Atlas Golden Age system mortars
- protection against water action of façades coated with renovation finishing coats, including renovation plasters Atlas Golden Age
- external wall insulation, executed with the use of polystyrene or mineral wool boards, where the finishing coat is made of mineral renders
- hydrophobization of facings and stone tiles, installed upon walls and floors
- hydrophobization of stone sculptures and architectonic decors subject to direct atmospheric factors action
- protection against water action of mouldings made of moulding mortars Atlas Golden Age and installed upon façades
- hydrophobization of existing mineral paint coats
- impregnation of contemporary and heritage ceramic roofing tiles
- for indoor and outdoor use

SUBSTRATE PREPARATION

The method of substrate cleaning must be individually adjusted for each object, depending on strength and condition of the substrate material and its historic value. Before impregnation, the substrate must be cleaned from dust, dirt, patina, efflorescence, loose and crumbling pieces and residues of grease, oils and wax. Substrate should by dry, it can be also slightly wet. In case of biological contamination clean the surface with ATLAS MYKOS. It is recommended to protect against possible soiling all any neighbouring surfaces against possible soiling – woodwork, glass, plants, etc. Note! Hydrophobization should not be executed on surfaces of high salinity level as it may lead to intensification of construction salts crystallization process and substrate material deterioration .

APPLICATION

ATLAS GOLDEN AGE WH is manufactured as a ready to use product. It must not be mixed with other materials, diluted or thickened. The preparation is applied similarly to paints, with a soft brush, upon larger surfaces it can be applied by spraying with nozzle assuring oblate liquid stream. In both cases one should provide plentiful and even preparation spreading upon whole surface until full substrate saturation. When applied appropriately, the preparation coming down the surface forms damp patches up to 50 cm long. Repeat the action several times, depending on properties and porosity of the treated substrate, use the wet on wet method. During work and directly after, the freshly impregnated surfaces should be protected against direct sunshine and precipitation (min. 5 hours).

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The product must be stored and transported in original, tightly sealed containers in dry conditions and positive temperature. Protect against overheating.
- Keep out of reach of children.
- Priming paint of setting properties ATLAS GOLDEN AGE WH, maximum content of VOC in the product 29.9 g/l, maximum allowable content of VOC 30 g/l

ATLAS GOLDEN AGE WH is an one-component preparation based on oxosilanes.

Density	approx. 1.0 kg/dm^3
Active ingredient content	approx. 10% by weight
pH	7
Colour	milky white, transparent after drying
Consumption depending on substrate type and absorptiveness.	approx. 0.5 – 1.5 kg for 1m^2
Temperature of use	from +10°C to +25°C
Packaging	Plastic containers 5 kg, 30 kg

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2015-10-07

SILICATE STRENGTHENING PREPARATION KPW

USE AND PROPERTIES

- one – component preparation for strengthening typical building substrates
- can be used for surface as well as structural strengthening
- for impregnation of old, weathered and weakened by atmospheric factors elements, made of absorptive materials
- characterized by very good penetration abilities – penetrates the substrate deeply and fills the pores, does not migrate to surface pores during the solvent (water) evaporation
- does not cause hydrophobic action, this way after strengthening the substrate, cleaning and filling the defects with mineral mortars can be continued
- limits and unifies the substrate absorption of the whole surface
- can be used as an additive accelerating the binding of cement – based mortars used, e.g. for water leakage blocking
- transparent – does not cause discolouration of the impregnated substrate
- for indoor and outdoor use

RANGE OF USE

- surface substrate strengthening allowing further refurbishment works, including defects treatment and filling
- tructural strengthening, improving the mechanical substrate properties and increasing its resistance to external factors
- for preparation of fast – setting cement – based mortars, used for blocking active water leakages, e.g. in reconstruction of vertical and horizontal building insulations

SUBSTRATE PREPARATION

The method of substrate preparation should be individually adjusted for each object, depending on the strength and condition of the substrate material and its historic value. The substrate should be stable, cleaned of dust, dirt, wax and grease. Layers of poor adhesion and old paint coats should be removed. In case of structural impregnation, it is extremely important to fill any cracks, cavities and empty spaces in a wall with a cement – based mortar, e.g. RENOVATION BASE COAT PLASTER TRP. Do not use the preparation on saline and gypsum substrates.

APPLICATION

Surface strengthening (pressure – less method). Wet the substrate abundantly with water until matt – wet state, without leaving puddles, best ca. 24 hours before the planned strengthening action. Apply the undiluted preparation with a brush or sprayer, until sated. Repeat the action several times, apply each new coat onto the substrate still wet after the previous application.

Structural strengthening (pressure method). Drill in the substrate holes of diameter from 18 up to 30 mm (depending on the wall thickness), with spacing 20 – 30 cm. Wet the substrate with water directly before the preparation application. Place the injectors in the holes and start injecting the preparation with pressure of min. 3 bars (walls of thickness up to 50 cm) or min. 10 bars (walls of thickness above 50 cm).

The preparation effectiveness and the strengthening result depend on the substrate type, and, in case of structural strengthening, on its structure and wall construction as well.

Acceleration of setting of cement – based mortars. The preparation accelerates the setting of cement – based mortars, it should be used for preparation of mortars made of Portland cement and sand (proportions 1:2) designed for quick blocking of water leakages. Depending on the expected setting time the preparation should be used undiluted or diluted with water in ratio 1:1. The place of planned blocking should be properly prepared, cracks and scores should be mechanically widened and cleaned. Apply the prepared mass directly into the blocking site. If needed, the "burn - through" action can be executed – wet the blocking site with SILICATE STRENGTHENING PREPARATION KPW and sprinkle with Portland cement until the cement stands uniformly light.

REMARKS

- The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
- The tools must be cleaned with clean water directly after use.
- The shelf life of the product is 12 months from the production date shown on the packaging. The product must be transported and stored in tightly sealed, original packages, in dry conditions and positive temperature. Avoid overheating.
- Keep out of the reach of children. Avoid contact with skin. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

TECHNICAL DATA

ATLAS ZŁOTY WIEK KPW is an aqueous solution of potassium silicate.

Density	ca. 1.15 – 1.20 g/cm³
Substrate strengthening (depending on substrate material, its humidity and external conditions)	up to 60% (4.0 – 8.0 N/mm²)
pH	12
Colour	transparent
Viscosity (measurement with Ford cup)	Φ 2 – 48 seconds Φ 4 – 11 seconds Φ 6 – 6 seconds
Consumption (depending on the use type)	0.5 – 1.0 kg/m² (pressure – less method) 30 – 50 kg/m³ (pressure method) 0.2 – 0.4 kg for 1 kg of Portland cement (setting acceleration)
Substrate and ambient temperature during work and drying	from +5°C to +25°C
Available packaging	containers 5 l, 10 l

At the time of publication of this product data sheet all previous ones become void.
Date of update: 2014-02-12