



THIN-COAT RENDERS

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THIN-COAT RENDERS

Owing to long time experience in production of thin-coat structural renders, ATLAS is nowadays among leading suppliers of thermal insulation products. In our portfolio one can find wide range of renders available in numerous colours.

Thin-coat structural renders are mostly supposed to:

- protect external walls against adverse atmospheric conditions
- improve façade aesthetics

Renders can be applied directly upon traditional plasters or form finishing coats of thermal insulation. Render properties, therefore product suitability for a particular project, result mainly from type of binder used in production. The most popular render types are:

- mineral
- acrylic
- siliconesilicate
- hvbrids
- nyprids

Criteria of render selection

In order to select appropriate render one should answer a few questions:

• What is the wall diffusion resistance?

Render must not substantially limit free transfer of water vapour through partition (wall with all layers: internal plaster, external plaster, thermal insulation, etc.). It is advisable to check project documentation or use applications available on www.atlas.com.pl in order to build the partition correctly. If renders are applied upon walls made of materials of high water vapour permeability, e.g. cellular concrete, they must offer similar properties. In such case, products based on mineral or silicate binder should be used. Choose similarly when wall is insulated with mineral wool.

• How old is a building?

Decade old buildings are characterised by very high water vapour permeability, therefore should be rendered with products of similar properties, especially based on silicate binder.

Are there any clusters of greenery in neighbourhood?

If so, risk of organic corrosion, development of fungi and mould is significant. In such cases it is advisable to use mineral or silicone-silicate renders characterised by very high alkaline reaction ($pH \sim 12$), which hinders development of microorganisms. Another ally fighting biological corrosion is low absorbability, which impairs deposition of spores.

• Is a building located close to busy street or other "source" of constant pollution?

If so, one can face two problems. Buildings located close to busy streets get soiled very quickly, therefore silicone render, which is the easiest in keeping clean, is advisable. This render is called "self-cleaning", as minor contamination is cleaned itself with rain. Moreover, intensive vehicle traffic can cause render cracking. In order to prevent it, one should choose acrylic renders characterised by high elasticity and ability of stress compensation. These renders can be easily pressure washed.

• What colours are to be used on façade?

ATLAS offers wide range of colours of renders and façade paints. It is significant to choose particular colours and join them thoroughly. This problem can be solved by use of applications available on www.atlas.com.pl/en, which are, e.g. helpful in shade selection.

	ATLAS DEKO M AVAL KT 77			Acrylic resin	Cerplast/ AVAL KT 16	mosaic	60 – ready-to-use 84 – TM1 20 – TM3	1.0-2.0 - ready-to-use 0.2-08 – TM1	3.0-5.5* - ready-to-use and TM3 1.5-2.5* - TM1	ı	I		>		
٠	ATLAS SILICONE-SILICATE RENDER	PN-EN 15824:2010	PN-EN 15824:2010	mix	Styrene-acrylic resin, potassium silicate	Silkon ANX/ AVAL KT 76	spotted	400	1.5/N-15 2.0/N-20	2.5 for 1.5 mm 3.0 for 2.0 mm	ı	ı		>	* >
•	ATLAS/AVAL SILICONE RENDER			ispersion ready-to-use	Styrene-acrylic and silicone resin	Silkon ANX/ AVAL KT 76	spotted	400	1.5/N-15 2.0/N-20	2.5 for 1.5 mm 3.2 for 2.0 mm	ı	I		>	** >
•	ATLAS/AVAL ACRYLIC-SILICONE RENDER		ā	Styrene-acrylic and silicone resin	Cerplast/ AVAL KT 16	spotted	400	1.5	2.5	I	I		>	* >	
•	ATLAS/AVAL ACRYLIC RENDER			Styrene-acrylic resin	Cerplast/ AVAL KT 16	spotted	400	1.5/N-15 2.0/N-20	2.5 for 1.5 mm 3.0 for 2.0 mm	ı	I		>	** >	
Real Provide August Aug	ATLAS CERMIT PS					sandstone	1 (sandy)	1.0	2.0-2.5	5.0-5.5	1.5	USE	>	>	
	ATLAS CERMIT WN					wood-like	10***	1.0	2.5-3.0	5.25-6.00	1.0		>		
	ATLAS CERMIT ND	PN-EN 998-1:2012	Mineral dry mixtures	Cement	Cerplast/ AVAL KT 16	spotted	1 (white)	2.0	2.8	6.25	1.5		>		
	ATLAS CERMIT SN-MAL					spotted	1 (white)	1.5/SN-MAL 15 2.5/SN-MAL 25	2.5 for 1.5 mm 3.5-4.0 for 2.5 mm	5.0-6.25/SN-MAL15 4.5-5.5/SN-MAL25	1.5		>	* >	
	ATLAS CERMIT SN/DR AVAL KT 137					spotted/rustic	1 (white)	1.5/spotted 2.0/spotted/rustic 3.0/spotted/rustic	2.5 for 1.5 mm 3.0 for 2.0 mm 4.0 for 3.0 mm	5.75-6.50/spotted 5.0-6.0/rustic	1.5		>	* >	
PRODUCT		Reference document	Render type	Binder	Priming mass	Texture	Colours	Max. aggregate grain size [mm]	Consumption [kg/m ²]	Mixing ratio [I/25kg]	Pot life		Manual	Machine	

ATIA

TABLE 11.1



* The actual consumption can be established on basis of sample application upon particular substrate. ** Mineral renders CERMIT SN 1.5 mm and 2.0 mm, dispersion renders 1.5 mm thick can be applied with machines only. The machine-applied render forms texture differing from the one formed manually. *** After coating with ATLAS BEJCA impregnator.











Decorative and protective top finish of façades or internal walls.

Light and durable rendering coat – perfect top finish of thermal insulation systems.

Recommended for façades, where high water vapour permeability should be kept – porous structure of set render ensures free transfer of water vapour – therefore forms perfect finishing coat of external walls of pools, kitchens, drying houses, laundries, cold storage plants, gym halls, baths, old buildings, etc.

Recommended for buildings exposed to algae and fungi – situated close to clusters of greenery and water reservoirs; high pH (~12) hinders development of biological corrosion occurring in the form of brownish – green deposit and resulting in the surface damage.

Types of rendered buildings – single- and multi – family, public access buildings.

Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards (indoors), thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Resistant to micro-cracking – contains special microfibres strengthening its structure.

Additional melioration of strength parametres in time - owing to positive influence of the natural process of mineral renders carbonation, which limits their absorbability, hardens structure and improves resistance to chemical aggression. High strength and hardness – owing to polymer-reinforced mix of binders – white, fine, high grade cement type and lime as well as specially selected quartz aggregate.

Hydrophobic coat – content of hydrophobic agents reduces render absorptiveness and protects partition against precipitation.

MYCO PROTECT – contents lime, which naturally protects the render against biological corrosion, i.e. development of fungi and algae on the render surface, for long time.

Does not attract dust, dirt, pollen present in air.

Inflammable – in combination with mineral wool forms inflammable thermal insulation system for walls.

Does not require additional painting to unify the shade.

Can be applied with special rendering units – improved yield and pace of application, particularly upon curved and irregular surfaces. Note. Renders CERMIT SN 15 and CERMIT SN 20 can be applied with machines only. The machine-applied render forms texture differing from the one formed manually.

ATLAS CERMIT SN and DR

thin-coat mineral render

- reinforced with polymers
- durable and resistant to micro-cracking
- water vapour permeable
- hydrophobic
- two textures spotted and rustic



Technical data

ATLAS CERMIT SN and DR are manufactured as dry mixes of white cement, lime, quartz and lime aggregate.

Mixing ratio for CERMIT SN (water/dry mix)	5.75 ÷ 6.50 l/25 kg
Mixing ratio for CERMIT DR (water/dry mix)	5.00 ÷ 6.00 l/25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1.5 hour
Open time	approx. 20 minutes

Textures:	– spotted – CERMIT SN – rustic – CERMIT DR
Aggregate grain size:	– 1.5 mm – CERMIT SN 15 – 2.0 mm – CERMIT SN 20 and DR 20 – 3.0 mm – CERMIT SN 30 and DR 30

Technical requirements

Renders conform to PN-EN 998-1 standard. EC Declarations of Performance No. 013/CPR (SN render) and 014/CPR (DR render).

CE 0767	PN-EN 998-1:2012 (EN 998-1:2010)
Factory made single-coat (OC) rendering mortar	for outdoor use, on masonry walls, ceilings, posts and partition walls
Reaction to fire - class	A2 s1 d0
Water absorption - category	W1
Bonding after required freeze-thaw cycles	≥ 0.3 N/mm ² - FP:B
Water vapour permeability coefficient μ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mk (λ _{10, dry}) (EN 1745:2002, table A.12)
Water permeability tested after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Gross dry density	≤ 1800 kg/m ³
Durability. Bonding after required freeze-thaw cycles.	≥ 0.3 N/mm ² - FP:B
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Release/content of hazardous substances	See: Safety Data Sheet

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS XPS	ETA 07/0316	EC 1488-CPD-0075
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

The product has been given the Radiation Hygiene Certificate.

Rendering

Substrate preparation

The substrate should be:

 stable – sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:

- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- ۰ dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI--GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
 primed - with ATLAS CERPLAST priming mass.
- primed with ATLAS CERPLAST priming m

Rendering mass preparation

Pour the material from the bag into a bucket and mix dry – aggregate segregation can occur in transportation. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix manually or mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1.5 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.

When using a rendering unit the render should be mixed in accordance to the unit manufacturer's guidelines. The level of mix water should be set so the render consistency provides appropriate render texture.

Mass application

The mass can be applied manually or mechanically. Manual application consists in applying the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and obligatorily remix. Machine application should be carried out with appropriate rendering units.

Texture forming

Freshly applied mass requires texture forming with a plastic float. The spotted effect (SN render) is formed by floating the rendering coat with circular moves, whereas the rustic effect (DR render) - by floating the rendering coat with circular, horizontal or vertical moves (depending on the expected direction of scores). Machine-applied renders are not textured – they form spotted texture differing from the one formed manually.

Finishing works

The render can be coated with any façade paints (e.g. silicate ATLAS ARKOL S, ATLAS SALTA S, silicone ATLAS SALTA, ATLAS FASTEL-NOVA, ATLAS SALTA N, acrylic ATLAS SALTA E, ATLAS ARKOL E). Painting is possible after $2 \div 6$ weeks since the completion of render application (depending on type and colour of paint). Painting with ATLAS silicate paints ATLAS ARKOL S and ATLAS SALTA S or ATLAS silicone paints ATLAS SALTA and ATLAS FASTEL NOVA can start just when the render dries, not earlier, however, than after 48 hours (silicate paint) or 5 days (FASTEL NOVA and SALTA).

Consumption

CERMIT SN 15 - approx. 2.5 kg/1 m². CERMIT SN 20 and DR 20 - approx. 3.0 kg/1 m². CERMIT SN 30 and DR 30 - approx. 4.0 kg/1 m².

Important additional information

- The open time (between application and texture forming) depends on substrate absorbability, ambient temperature and render consistency. The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- 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.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.

Packaging

Paper bags: 25 kg Pallet: 1,050 kg in 25 kg bags

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-03-31













Render for further painting – must be coated with façade paint. **Economical version of CERMIT SN render** – when shade from wide ATLAS range of colours and further coating with façade paints is required.

Decorative and protective top finish of façades or internal walls.

Light and durable rendering coat – perfect top finish of thermal insulation systems.

Recommended for façades, where high water vapour permeability should be kept – porous structure of set render ensures free transfer of water vapour – therefore forms perfect finishing coat of external walls of pools, kitchens, drying houses, laundries, cold storage plants, gym halls, baths, old buildings, etc.

Recommended for buildings exposed to algae and fungi – situated close to clusters of greenery and water reservoirs; high pH (~12) hinders development of biological corrosion occurring in the form of brownish – green deposit and resulting in the surface damage.

 $\ensuremath{\text{Types}}$ of rendered buildings $\ensuremath{-}$ single- and multi $\ensuremath{-}$ family, public access buildings.

- Types of substrates concrete, traditional plasters on walls made of bricks,
- ceramic, cellular or silicate blocks or hollow blocks, plasterboards (indoors), thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Resistant to micro-cracking – contains special microfibres strengthening its structure.

Additional melioration of strength parametres in time - owing to positive influence of the natural process of mineral renders carbonation, which limits their absorbability, hardens structure and improves resistance to chemical aggression. High strength and hardness – owing to polymer-reinforced mix of binders – white, fine, high grade cement type and lime as well as specially selected quartz aggregate.

MYCO PROTECT – contents lime, which naturally protects the render against biological corrosion, i.e. development of fungi and algae on the render surface, for long time.

Does not attract dust, dirt, pollen present in air.

Inflammable – in combination with mineral wool forms inflammable thermal insulation system for walls.

Can be applied with special rendering units – improved yield and pace of application, particularly upon curved and irregular surfaces. Note. Renders CERMIT SN-MAL 15 can be applied with machines only. The machine-applied render forms texture differing from the one formed manually.

ATLAS CERMIT SN-MAL

thin-coat mineral render for further painting

- render for further painting
- reinforced with polymers
- durable and resistant to micro-cracking
- water vapour permeable
- spotted texture two aggregate thicknesses



Technical data

ATLAS CERMIT SN-MAL is manufactured as a dry mix of white cement, lime, quartz and lime aggregate.

Mixing ratio for CERMIT SN-MAL 15 (water/dry mix)	5.00 ÷ 6.25 l/25 kg
Mixing ratio for CERMIT SN-MAL 25 (water/dry mix)	4.50 ÷ 5.50 l/25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1.5 hour
Open time	approx. 20 minutes

Texture:	– spotted
Aggregate grain size:	– 1.5 mm – CERMIT SN-MAL 15 – 2.5 mm – CERMIT SN-MAL 25

Technical requirements

Render conforms to PN-EN 998-1 standard. EC Declarations of Performance No. 053/CPR.

CE 0767	PN-EN 998-1:2012 (EN 998-1:2010)
Factory made single-coat (OC) rendering mortar	for outdoor use, on masonry walls, ceilings, posts and partition walls
Reaction to fire - class	A2 s1 d0
Water absorption - category	W1
Bonding after required freeze-thaw cycles	≥ 0.3 N/mm ² - FP:B
Water vapour permeability coefficient μ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mk (λ _{10, dry}) (EN 1745:2002, table A.12)
Water permeability tested after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Gross dry density	≤ 1800 kg/m ³
Durability. Bonding after required freeze-thaw cycles.	≥ 0.3 N/mm ² - FP:B
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Release/content of hazardous substances	See: Safety Data Sheet

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS XPS	ETA 07/0316	EC 1488-CPD-0075
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

The product has been given the Radiation Hygiene Certificate.

Rendering

Substrate preparation

The substrate should be:

 stable – sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:

- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- ۰ dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI--GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
- primed with ATLAS CERPLAST priming mass.

Rendering mass preparation

Pour the material from the bag into a bucket and mix dry – aggregate segregation can occur in transportation. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix manually or mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1.5 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.

When using a rendering unit the render should be mixed in accordance to the unit manufacturer's guidelines. The level of mix water should be set so the render consistency provides appropriate render texture.

Mass application

The mass can be applied manually or mechanically. Manual application consists in applying the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and obligatorily remix. Machine application should be carried out with appropriate rendering units.

Texture forming

Freshly applied mass requires texture forming with a plastic float. The spotted effect is formed by floating the rendering coat with circular moves. Machine-applied renders are not textured – they form spotted texture differing from the one formed manually.

Finishing works

The render can be coated with any façade paints (e.g. silicate ATLAS ARKOL S, ATLAS SALTA S, silicone ATLAS SALTA, ATLAS FASTEL-NOVA, ATLAS SALTA N, acrylic ATLAS SALTA E, ATLAS ARKOL E). Painting is possible after $2 \div 6$ weeks since the completion of render application (depending on type and colour of paint). Painting with ATLAS silicate paints ATLAS ARKOL S and ATLAS SALTA S or ATLAS silicone paints ATLAS SALTA and ATLAS FASTEL NOVA can start just when the render dries, not earlier, however, than after 48 hours (silicate paint) or 5 days (FASTEL NOVA and SALTA).

Consumption

CERMIT SN-MAL 15 - approx. 2.5 kg/1 m². CERMIT SN-MAL 25 - approx. 3.5-4.0 kg/1 m².

Important additional information

- The open time (between application and texture forming) depends on substrate absorbability, ambient temperature and render consistency. The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- 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.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - ≤ 0.0002%.

Packaging

Paper bags: 25 kg Pallet: 1,050 kg in 25 kg bags

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-05-07





Render based on dolomite aggregate

Owing to the use of specially chosen and selected dolomite aggregate mixes the render offers exceptional features:

- perfect working parameters very good bonding to the substrate during application (almost no material loss), very easy structure forming and optional painting.
- uniform, repeatable spotted texture.

Use

Decorative and protective top finish of façades or internal walls. Light and durable rendering coat – perfect top finish of thermal insulation systems.

Recommended for façades, where high water vapour permeability should be kept – porous structure of set render ensures free transfer of water vapour – therefore can be used, e.g. as finishing coat of external walls of roofed pools, kitchens, drying houses, laundries, cold storage plants, gym halls, baths, old buildings, where keeping proper warm and humidity parameters of partition is essential. Recommended for buildings exposed to algae and fungi – situated close to clusters of greenery and water reservoirs; high pH (~12) hinders development of biological corrosion occurring in the form of brownish – green deposit and resulting in the surface damage.

Types of rendered buildings – single- and multi – family, public access buildings.

Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards (indoors), thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Allows for free technological areas adjoining.

Forms snow-white surface, does not require painting (white version of ATLAS CERMIT ND) – version for painting must be finished with paint coat, e.g. ATLAS SALTA. Paint must be applied not later than 1 year since the render application (render can be left unpainted during single winter time only).

Resistant to micro-cracking – contains special microfibres strengthening its structure.

Additional melioration of strength parametres in time - owing to positive influence of the natural process of mineral renders carbonation, which limits their absorbability, hardens structure and improves resistance to chemical aggression. High strength and hardness – owing to polymer-reinforced mix of binders – white, fine, high grade cement type and lime as well as specially selected dolomite aggregate.

MYCO PROTECT – high pH naturally protects the render against biological corrosion, i.e. development of fungi and algae on the render surface, for long time. Does not attract dust, dirt, pollen as well as pollution from exhaust fumes. Inflammable – in combination with mineral wool forms inflammable thermal insulation system for walls.

ATLAS CERMIT ND

thin-coat mineral render

- reinforced with polymers
- durable and resistant to micro-cracking
- water vapour permeable
- spotted 2.0 mm
- two colour versions white and for painting



Technical data

ATLAS CERMIT ND is manufactured as a dry mix of white cement and dolomite aggregate.

Mixing ratio (water/dry mix)	approx. 6.25 l / 25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1.5 hour
Open time	approx. 20 minutes

Technical requirements

Render conforms to PN-EN 998-1 standard. EC Declaration of Performance No. 135/CPR.

CE	PN-EN 998-1:2012 (EN 998-1:2010)
Factory made single-coat (OC) rendering mortar	for outdoor use, on masonry walls, ceilings, posts and partition walls
Reaction to fire - class	A1
Water absorption - category	W1
Bonding after required freeze-thaw cycles	≥ 0.5 N/mm ² - FP:B
Water vapour permeability coefficient μ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mk (λ _{10, dry}) (EN 1745:2002, table A.12)
Water permeability tested after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Gross dry density	≤ 1800 kg/m ³
Durability. Bonding after required freeze-thaw cycles.	≥ 0.5 N/mm ² - FP:B
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Release/content of hazardous substances	See: Safety Data Sheet

The render has been given the Radiation Hygiene Certificate. Additionally it is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

Rendering

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- air-dry in the state of moisture equilibrium in standard operation conditions,
- even irregularities and gaps, which would hinder formation of proper render texture, should be filled with, e.g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTER-ING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
 primed - with ATLAS CERPLAST priming mass.

Rendering mass preparation

Pour the material from the bag into a bucket and mix dry – aggregate segregation can occur in transportation. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix manually or mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1.5 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.

Mass application

The mass can be applied manually. It should be applied with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and obligatorily remix.

Texture forming

Freshly applied mass requires texture forming with a plastic float. The spotted effect is formed by floating the rendering coat with circular moves.

Finishing works

Depending on render type, the finishing coat can be left without painting (white version of ATLAS CERMIT ND) or requires coating with a façade paint (version ATLAS CERMIT ND for painting). The render can be coated with any façade paints (e.g. silicate ATLAS ARKOL S, ATLAS SALTA S, silicone ATLAS SALTA, ATLAS FASTEL-NOVA, ATLAS SALTA N, acrylic ATLAS SALTA E, ATLAS ARKOL E). Painting is possible after 2 ÷ 6 weeks since the completion of render application (depending on type and colour of paint). Painting with ATLAS SALTA and ATLAS FASTEL NOVA can start just when the render dries, not earlier, however, than after 48 hours (silicate paint) or 5 days (FASTEL NOVA and SALTA).

Consumption

Average consumption - approx. 2.8 kg/1 m².

Important additional information

- The open time (between application and texture forming) depends on substrate absorbability, ambient temperature and render consistency. The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- 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.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.

Packaging

Paper bags: 25 kg Pallet: 1,050 kg in 25 kg bags

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-08-05







ATLAS CERMIT PS

mineral render with sandstone texture

- fine aggregate (grain size up to 1 mm)
- durable and resistant to micro-cracking
- water vapour permeable
- sandstone texture



Use

Sandstone texture – forms decorative and protective top finish of façades or internal walls.

Recommended for façades, where high water vapour permeability should be kept – porous structure of set render ensures free transfer of water vapour – therefore forms perfect finishing coat of external walls of pools, kitchens, drying houses, laundries, cold storage plants, gym halls, baths, old buildings, etc.

Recommended for buildings exposed to algae and fungi – situated close to clusters of greenery and water reservoirs; high pH (~12) hinders development of biological corrosion occurring in the form of brownish – green deposit and resulting in the surface damage.

Types of rendered buildings – single- and multi – family, public access buildings.

Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards (indoors).

Properties

Resistant to micro-cracking – contains special microfibres strengthening its structure.

Additional melioration of strength parametres in time - owing to positive influence of the natural process of mineral renders carbonation, which limits their absorbability, hardens structure and improves resistance to chemical aggression. High strength and hardness – owing to polymer-reinforced mix of binders – white, fine, high grade cement type and lime as well as specially selected quart aggregate.

MYCO PROTECT – contents lime, which naturally protects the render against biological corrosion, i.e. development of fungi and algae on the render surface, for long time.

Content of hydrophobic agents reduces render absorptiveness and protects partition against precipitation.

Does not attract dust, dirt, pollen present in air.

Can be applied with special rendering units – improved yield and pace of application, particularly upon curved and irregular surfaces.

Colour and texture:- sandstoneAggregate thickness:- up to 1.0 mm

Technical data

ATLAS CERMIT PS is manufactured as a dry mix of white cement, lime, quartz and lime aggregate.

Mixing ratio (water/dry mix)	5.00 ÷ 5.50 l/25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1.5 hour
Open time	approx. 15 minutes

Technical requirements

Render conforms to PN-EN 998-1 standard. EC Declarations of Performance No. 053/CPR:

C € 0767	PN-EN 998-1:2012 (EN 998-1:2010)
Factory made single-coat (OC) rendering mortar	for outdoor use, on masonry walls, ceilings, posts and partition walls
Reaction to fire - class	A2 s1 d0
Water absorption - category	W1
Bonding after required freeze-thaw cycles	≥ 0.3 N/mm ² - FP:B
Water vapour permeability coefficient µ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mk (λ _{10, dry}) (EN 1745:2002, table A.12)
Water permeability tested after required freeze-thaw cycles	≤ 1 ml/cm² after 48 h
Gross dry density	≤ 1800 kg/m³
Durability. Bonding after required freeze-thaw cycles.	≥ 0.3 N/mm ² - FP:B
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm ² after 48 h
Release/content of hazardous substances	See: Safety Data Sheet

System name	Technical Approval No.	Certificate No.
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the Hygienic Evaluation and the Radiation Hygiene Certificate.

Rendering

Substrate preparation

- The substrate should be:
- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- dry,
- even irregularities and gaps should be filled with, e.g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI--GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
 primed - with ATLAS CERPLAST priming mass.
- primed with ATLAS CERPLAST prim

Rendering mass preparation

Pour the material from the bag into a bucket and mix dry – aggregate segregation can occur in transportation. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix manually or mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1.5 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.

When using a rendering unit the render should be mixed in accordance to the unit manufacturer's guidelines. The level of mix water should be set so the render consistency provides appropriate render texture.

Mass application and texture forming

The mass can be applied manually or mechanically. Manual application consists in applying the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and obligatorily remix. When applying and collecting excessive rendering mass, one should float it with a smooth float, so the expected texture forms. Render does not require additional texturing. Machine application should be carried out with appropriate rendering units. The applied mass can be smoothed (similarly to manual application) or left unsmoothed – fine spotted texture is formed then.

Finishing works

The render can be coated with any façade paints (e.g. silicate ATLAS ARKOL S, ATLAS SALTA S, silicone ATLAS SALTA, ATLAS FASTEL-NOVA, ATLAS SALTA N, acrylic ATLAS SALTA E, ATLAS ARKOL E). Painting is possible after $2 \div 6$ weeks since the completion of render application (depending on type and colour of paint). Painting with ATLAS silicate paints ATLAS ARKOL S and ATLAS SALTA S or ATLAS silicone paints ATLAS SALTA and ATLAS FASTEL NOVA can start just when the render dries, not earlier, however, than after 48 hours (silicate paint) or 5 days (FASTEL NOVA and SALTA).

Consumption

The actual consumption can be established on basis of sample application upon particular substrate. Average consumption: approx. 2.0-2.5 kg/1 m².

Important additional information

- The open time (between application and texture forming) depends on substrate absorbability, ambient temperature and render consistency. The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- In order to avoid differences in colour shades an individual surface should be coated with render of the same manufacturing date.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- 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.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.

Packaging

Paper bags: 25 kg Pallet: 1,050 kg in 25 kg bags

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2014-05-15





Application of surface imitating wood texture, which is pressed in the render with a silicone mold – forms durable and decorative finishing coat of façades and indoor walls, in various room types. Can be applied upon whole façade surface as well as fragments only.

Application of thin-coat renders imitating wood texture – rendering coat ensures free transfer of water vapour; forms perfect finishing coats of external partitions (one- and two-layer), internal walls, masonry and casted architectonic elements, etc. in single- and multi-family housing, public access, commercial, service and gastronomy buildings, etc.

General use – ATLAS CERMIT WN is recommended for application of stylized rendering coats imitating natural wood texture on external wall insulation systems (ETICS), concrete substrates, mineral renders of any type (smooth, textured, etc.), gypsum plasters and top coats, plasterboards, fibre cement boards, etc.

Properties

Highly resistant to micro-cracking – owing to specially selected fillers and additional structural reinforcement with microfibres.

High strength and durability – owing to the use of polymerized cement-lime mortar based on white cement and hydrophobic agents ensuring very good structural tightness of coating. The natural process of mineral renders carbonation limits the absorbability, hardens structure and improves resistance to chemical aggression.

MYCO PROTECT – high rendering coat alkalinity and hydrophobisation form natural protection against development of fungi and algae – particularly important for buildings located in the vicinity of clusters of greenery, water tanks, in shadowed city zones of high pollution concentration. Does not attract dust, dirt, pollen present in air.

Can be applied with recommended rendering units.

Colour and texture:	– white, imitating wood
	(after pressing with silicone mold)
Aggregate grain size:	– up to 1.0 mm

ATLAS CERMIT WN

mineral render imitating natural wood texture

- perfectly imitates natural wood texture
- durable and resistant to micro-cracking
- highly water vapour permeable
- hydrophobic
- resistant to biological corrosion



Technical data

ATLAS CERMIT WN is manufactured as a dry mix of white cement and lime, selected dolomite aggregates and quartz powder, modifiers and hydrophobic agents.

Mixing ratio (water/dry mix)	0.21 ÷ 0.24 l/1 kg 5.25 ÷ 6.00 l/25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1 hour

Technical requirements

The render is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z

The render has been given the Radiation Hygiene Certificate.

Rendering

Substrate preparation

- The substrate should be:
- · stable sufficiently rigid and sufficiently long stabilized and primed
- dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent, Detailed requirements for substrates:

Substrate type	Requirements for stabilisation	Priming
Base coat of external thermal insulation systems (ETICS) made of ATLAS adhesive mortars	min. 3 days*	
Fresh cement plasters made of ATLAS mortars, traditional cement and cement-lime plasters	min. 7 days*, moisture content 4%	
Concrete	min. 28 days*, structu- ral moisture content < 4%	ATLAS CERPLAST
Gypsum	moisture content < 2%	
Plasterboards and fibre cement boards, firmly fixed according to manufacturer's guidelines and building technology	moisture content < 2%	
Well bonded paint coatings indoors	No requirements	

*) Note: for setting conditions: temperature+20°C, air humidity 50%

Rendering mass preparation

Pour the material from the bag into a bucket and mix dry. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.

Mass application and texture forming

The mass should be applied with a smooth stainless steel float, with coat approx. 4 mm thick. In order to unify the coat thickness, one can float it with a notched trowel (notch size 10 mm), led at an angle and smooth again. Leave the mass for initial setting and slight surface drying (approx. 20-60 minutes depending on weather conditions). Monitor this time thoroughly. Press the wood texture with a silicone mold upon the prepared surface. Coat the mold with ATLAS ANTI-ADHESION AGENT before use. Remove any render residues from the mold cavities before the next use. The mass hardens within 24 hours and can be coated with colouring impregnator ATLAS BEJCA after 3 days (for setting conditions: temperature+20°C, air humidity 50%).

Consumption

Average consumption - approx. 2.5-3.0 kg/1 m^2 . The actual consumption can be established on basis of sample application upon particular substrate.

Important additional information

- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- 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.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.

Packaging

Paper bags: 25 kg Pallet: 1,050 kg in 25 kg bags

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-09-14





ATLAS SILICONE RENDER

thin - coat silicone render

- water vapour permeable
- Iow water absorptiveness
- very high resistance to soiling
- very good bonding to substrates





Use

Thin-coat render for application of finishing coats with decorative spotted texture.

For indoor and outdoor use.

Recommended as a finishing coat during installation of building insulation with the use of polystyrene, XPS or mineral wool boards.

For facades exposed to soiling and difficult operation conditions – perfect for buildings located in the vicinity of busy roads, in cities or highly contaminated zones, in areas surrounded by clusters of greenery.

Types of rendered buildings	– single-	and	multi -	- family,	public	access,
industrial buildings.						

Types of substrates – concrete, traditional plasters on walls made of bricks, blocks and ceramic, cellular or silicate hollow bricks, plasterboards, base coats of thermal insulation systems with polystyrene, XPS and mineral wool boards.

Properties

Modern thin-coat silicone render based on advanced siloxane resins.

Resistant to deposition of pollution from the surroundings – forms coat of tight and low absorbent structure, which prevents moisture penetration into its structure – therefore surface keeps dry and impairs deposition of contamination. Self-cleaning during precipitation – does not require frequent preserving actions.

Forms dense and very clear spotted texture 1.5 mm or 2.0 mm thick. Render with aggregate 1.5 mm thick is also recommended for machine application with rendering units.

BIO PROTECTION – creates unfavorable conditions for fungi and algae growth due to low water absorption and acid-alkaline reaction.

ELASTICITY AND STRENGTH – formula providing improved elasticity and resistance to impacts; render compensates stress resulting from surface hits better, keeps consistent, does not chip off.

COLOUR DURABILITY – advanced technology provides colour durability resulting from the use of modern pigments, automatic system of dozing and permanently supervised process of manufacturing – render keeps its initial colour, is more resistant to bleaching and UV radiation.

ENVIRONMENTALLY FRIENDLY – render recipe was designed in accordance to the sustainable development aspects: maximally reduced amount of volatile organic compounds and use of natural fillers only.

RESISTANT TO CRACKING – improved resistance resulting from the presence of dispersed microfibers, which strengthen the render within its entire volume – render is protected against possible cracks caused by tension and alternate surface heating and cooling.

400 colours	-in accordance with SAH Colour Scheme for Renders and Paints	
1 texture Aggregate grain size:	– spotted – N – up to 1.5 mm – N-15 – up to 2.0 mm – N-20	

Technical data

ATLAS SILICONE RENDER is manufactured on the basis of water dispersion of synthetic resins and dolomite aggregate.

Density of the ready-to-use product	approx. 1.9 g/cm ³
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Water vapour permeability g/m²d	15 < V₂≤ 150
Diffusion depending on the air layer thickness	$0.14 \le S_{d} \le 1.4m$

Technical requirements

ATLAS SILICONE RENDER conforms to PN-EN 15824 standard. EC Declaration of Performance No. 145/CPR.

CE 0767	PN-EN 15824:2010 (EN 15824:2009)
Thin-coat silicone render, water – dilutable	for use on internal and external walls, posts and partition walls
Reaction to fire – class	A2-s1, d0
Water vapour permeability – category	V_2 – medium
Water absorption – category	W ₂ – medium
Bonding	≥ 0.35 MPa
Durability (resistance to freeze-thaw cycles)	According to the standard PN-EN 1062-3:2008, for absorption $W_2 \le 0.5 \text{ kg/m}^2 \cdot h^{0.5}$ testing of freeze – thaw resistance is not obligatory.
Thermal conductivity coefficient (average tabular value, P=90%)	0,67 W/mK (λ _{10,dry}) (EN 1745:2002 tab. A.12)

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

Rendering

Substrate preparation

- The substrate should be:
- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- ۰ dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
- primed with ATLAS SILKON ANX priming mass.

Rendering mass preparation

The render is delivered as a ready to use mass. It must not be mixed with other materials, diluted, or thickened. Just before application, the mass should be mixed in order to unify the consistency.

Mass application

Apply the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and remix. Renders of aggregate 1.5 mm thick can be applied mechanically – the following units recommended:

- WAGNER PC 830e with nozzle 6 mm, operational pressure 1 bar,
- MAI 2MULTIPUMP with nozzle 6 mm, operational pressure 1 bar,
- GRACO Textspray RTX 1500 with nozzle 6 mm.

Texture forming

Freshly applied mass requires texture forming with a plastic float, with circular moves. Machine-applied renders are not textured.

Consumption

Average consumption for manual application depends on substrate and render type:

- 2.5 kg for 1 m² for N-15 render,
- 3.2 kg for 1 m² for N-20 render.

The average consumption for machine application is lower than the one listed above, which results from different rendering coat texture (smaller aggregate concentration).

The actual consumption can be established on basis of sample application upon particular substrate.

Important additional information

ATTENTION! Bucket with a silicone render, apart from a description placed on the identification label, is highlighted also with a blue lid.

- The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during application and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. In high humidity and temperature close to $+5^{\circ}$ C the setting time can extend.
- In order to avoid differences in colour shades an individual surface should be coated with silicone render of the same manufacturing date.
- When rendering external thermal insulation systems one should avoid the use of dark colours, of diffuse reflection coefficient lower than 20%. The share of these colours on façades should not exceed 10% of the surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP 2000 agent.
- 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.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

Packaging

Plastic buckets: 25 kg Pallet: 600 kg in 25 kg buckets

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-05-09





ATLAS ACRYLIC RENDER

thin – coat acrylic render

- Iow water absorptiveness
- resistant to soiling
- very good bonding to substrates
- easy texture forming
- improved resistance to mechanical damage





Use

Thin-coat render for application of finishing coats with decorative spotted texture.

For indoor and outdoor use.

Recommended as a finishing coat during installation of building insulation with the use of polystyrene or XPS boards.

For façades exposed to dirt and difficult operation conditions – works perfectly on commercial, public access buildings (schools, kindergartens, hospitals, etc.), outhouses.

Types of rendered buildings – single- and multi – family, public access, industrial buildings.

Types of substrates – concrete, traditional plasters on walls made of bricks, blocks and ceramic, cellular or silicate hollow bricks, plasterboards, base coats of thermal insulation systems with polystyrene and XPS boards.

Properties

Thin-coat render based on advanced acrylic resin – up-to-date polymer binder significantly enhances previous limitations of acrylic renders – low water vapour permeability and vulnerability to soiling.

Forms dense and very clear spotted texture 1.5 mm or 2.0 mm thick. Render with aggregate 1.5 mm thick is also recommended for machine application with rendering units.

BIO PROTECTION – creates unfavorable conditions for fungi and algae growth due to low water absorption and acid-alkaline reaction.

ELASTICITY AND STRENGTH – formula providing improved elasticity and resistance to impacts; render compensates stress resulting from surface hits better, keeps consistent, does not chip off.

COLOUR DURABILITY – advanced technology provides colour durability resulting from the use of modern pigments, automatic system of dozing and permanently supervised process of manufacturing – render keeps its initial colour, is more resistant to bleaching and UV radiation.

ENVIRONMENTALLY FRIENDLY – render recipe was designed in accordance to the sustainable development aspects: maximally reduced amount of volatile organic compounds and use of natural fillers only.

RESISTANT TO CRACKING – improved resistance resulting from the presence of dispersed microfibers, which strengthen the render within its entire volume – render is protected against possible cracks caused by tension and alternate surface heating and cooling.

400 colours	 in accordance with SAH Colour Scheme for Renders and Paints
1 texture	– spotted – N
Aggregate grain size:	– up to 1.5 mm – N-15
	– up to 2.0 mm – N-20

Technical data

ATLAS ACRYLIC RENDER is manufactured on the basis of water dispersion of synthetic resins and dolomite aggregate.

Density of the ready-to-use product	approx. 1.9 g/cm ³
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Water vapour permeability g/m²d	15 < V₂≤ 150
Diffusion depending on the air layer thickness	$0.14 \le S_{d} \le 1.4m$

Technical requirements

ATLAS ACRYLIC RENDER conforms to PN-EN 15824 standard. EC Declaration of Performance No. 137/CPR.

CE 0767	PN-EN 15824:2010 (EN 15824:2009)
Thin-coat acrylic render, water – dilutable	for use on internal and external walls, posts and partition walls
Reaction to fire – class	A2-s1, d0
Water vapour permeability – category	V_2 – medium
Water absorption – category	W ₂ – medium
Bonding	≥ 0.35 MPa
Durability (resistance to freeze-thaw cycles)	According to the standard PN-EN 1062-3:2008, for absorption $W_2 \le 0.5 \text{ kg/m}^2 \text{h}^{0.5}$ testing of freeze – thaw resistance is not obligatory.
Thermal conductivity coefficient (average tabular value, P=90%)	0,67 W/mK (λ _{10,dry}) (EN 1745:2002 tab. A.12)

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

Rendering

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
- primed with ATLAS CERPLAST priming mass.

Rendering mass preparation

The render is delivered as a ready to use mass. It must not be mixed with other materials, diluted, or thickened. Just before application, the mass should be mixed in order to unify the consistency.

Mass application

Apply the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and remix. Renders with aggregate 1.5 mm thick can be applied mechanically – the following units recommended:

- WAGNER PC 830e with nozzle 6 mm, operational pressure 1 bar,
- MAI 2MULTIPUMP with nozzle 6 mm, operational pressure 1 bar,
- GRACO Textspray RTX 1500 with nozzle 6 mm.

Before the rendering mass application, apply through the hose a little bit of ATLAS CERPLAST mass in order to liquefy the hose and prevent clogging.

Texture forming

Freshly applied mass requires texture forming with a plastic float, with circular moves. Machine-applied renders are not textured.

Consumption

Average consumption for manual application depends on substrate and render type:

- 2.5 kg for 1 m² for N-15 render,
- 3.0 kg for 1 m² for N-20 render.

The average consumption for machine application is lower than the one listed above, which results from different rendering coat texture (smaller aggregate concentration).

The actual consumption can be established on basis of sample application upon particular substrate.

Important additional information

- ATTENTION! Bucket with acrylic render, apart from a description placed on the identification label, is highlighted also with a yellow lid.
- The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during application and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. In high humidity and temperature close to +5°C the setting time can extend.
- In order to avoid differences in colour shades an individual surface should be coated with acrylic render of the same manufacturing date.
- When rendering external thermal insulation systems one should avoid the use of dark colours, of diffuse reflection coefficient lower than 20%. The share of these colours on façades should not exceed 10% of the surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP 2000 agent.
- 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.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

Packaging

Plastic buckets: 25 kg Pallet: 600 kg in 25 kg buckets

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-05-09





ATLAS ACRYLIC-SILICONE RENDER

thin - coat acrylic - silicone render

- water vapour permeability
- very low water absorptiveness
- very high resistance to soiling
- very good bonding to substrates





Use

Thin-coat render for application of finishing coats with decorative spotted texture.

For indoor and outdoor use.

Recommended as a finishing coat during installation of building insulation with the use of polystyrene and XPS.

For facades exposed to soiling and difficult operation conditions – perfect for buildings located in the vicinity of busy roads, in cities or highly contaminated zones, in areas surrounded by clusters of greenery.

Types of rendered buildings -	single-	and	multi –	family,	public	access,
industrial buildings.						

Types of substrates – concrete, traditional plasters on walls made of bricks, blocks and ceramic, cellular or silicate hollow bricks, plasterboards, base coats of thermal insulation systems with polystyrene and XPS boards.

Properties

Modern thin-coat render based on innovative mix of two binders – acrylic and silicone resin.

Characterised by the lowest surface water absorptiveness among render types, perfectly protects substrates against water action.

Owing to silicone resin, it offers significantly higher resistance to soiling in comparison to standard acrylic renders.

Forms dense and very clear spotted texture 1.5 mm thick.

Recommended also for machine application with rendering units.

 ${\rm BIO}\ {\rm PROTECTION}$ – creates unfavorable conditions for fungi and algae growth due to low water absorption and acid-alkaline reaction.

ELASTICITY AND STRENGTH – formula providing improved elasticity and resistance to impacts; render compensates stress resulting from surface hits better, keeps consistent, does not chip off.

COLOUR DURABILITY – advanced technology provides colour durability resulting from the use of modern pigments, automatic system of dozing and permanently supervised process of manufacturing – render keeps its initial colour, is more resistant to bleaching and UV radiation.

ENVIRONMENTALLY FRIENDLY – render recipe was designed in accordance to the sustainable development aspects: maximally reduced amount of volatile organic compounds and use of natural fillers only.

RESISTANT TO CRACKING – improved resistance resulting from the presence of dispersed microfibers, which strengthen the render within its entire volume – render is protected against possible cracks caused by tension and alternate surface heating and cooling.

400 colours	 in accordance with SAH Colour Scheme for Renders and Paints
1 texture	– spotted – N
Aggregate grain size:	– up to 1.5 mm – N-15

Technical data

ATLAS ACRYLIC-SILICONE RENDER is manufactured on the basis of water dispersion of synthetic resins and dolomite aggregate.

Density of the ready-to-use product	approx. 1.9 g/cm ³
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Water vapour permeability g/m²d	15 < V₂≤ 150
Diffusion depending on the air layer thickness	0.14 ≤ S _d ≤ 1.4m

Technical requirements

ATLAS ACRYLIC-SILICONE RENDER conforms to PN-EN 15824 standard. EC Declaration of Performance No. 124/CPR.

CE 0767	PN-EN 15824:2010 (EN 15824:2009)
Thin-coat acrylic-silicone render, water – dilutable	for use on internal and external walls, posts and partition walls
Reaction to fire – class	A2-s1, d0
Water vapour permeability – category	V_2 – medium
Water absorption – category	W ₂ – medium
Bonding	≥ 0.35 MPa
Durability (resistance to freeze-thaw cycles)	According to the standard PN-EN 1062-3:2008, for absorption $W_2 \le 0.5 \text{ kg/m}^2 \cdot h^{0.5}$ testing of freeze – thaw resistance is not obligatory.
Thermal conductivity coefficient (average tabular value, P=90%)	0,67 W/mK (λ _{10,dr}) (EN 1745:2002 tab. A.12)

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS ETICS AT-15-9090/2014		FPC-ITB-0562/Z

Rendering

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- ۰ dry,
- even irregularities and gaps should be filled with, e.g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
 primed - with ATLAS CERPLAST priming mass.

Rendering mass preparation

The render is delivered as a ready to use mass. It must not be mixed with other materials, diluted, or thickened. Just before application, the mass should be mixed in order to unify the consistency.

Mass application

Apply the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and remix. Renders can also be applied mechanically – the following units recommended:

- WAGNER PC 830e with nozzle 6 mm, operational pressure 1.5 bar,
- MAI 2MULTIPUMP with nozzle 6 mm, operational pressure 1 bar,
- GRACO Textspray RTX 1500 with nozzle 6 mm.

Texture forming

Freshly applied mass requires texture forming with a plastic float, with circular moves. Machine-applied renders are not textured.

Consumption

Consumption for manual application depends on substrate and render type, on average 2.5 kg for 1 $\ensuremath{\mathsf{m}}^2$.

The average consumption for machine application is lower than the one listed above, which results from different rendering coat texture (smaller aggregate concentration).

The actual consumption can be established on basis of sample application upon particular substrate.

Important additional information

- ATTENTION! Bucket with acrylic-silicone render, apart from a description placed on the identification label, is highlighted also with a green lid.
- The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during application and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. In high humidity and temperature close to +5°C the setting time can extend.
- In order to avoid differences in colour shades an individual surface should be coated with acrylic-silicone render of the same manufacturing date.
- When rendering external thermal insulation systems one should avoid the use of dark colours, of diffuse reflection coefficient lower than 20%. The share of these colours on façades should not exceed 10% of the surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP 2000 agent.
- 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.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing - the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

Packaging

Plastic buckets: 25 kg Pallet: 600 kg in 25 kg buckets

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-05-09





European Technical Approvals for ATLAS insulation systems

ATLAS SILICONE-SILICATE RENDER

thin - coat silicone-silicate render

- very high water vapour permeability
- Iow water absorptiveness
- resistant to soiling
- very good bonding to substrates





Use

Thin-coat render for application of finishing coats with decorative spotted texture.

For indoor and outdoor use.

Recommended as a finishing coat during installation of building insulation with the use of polystyrene, XPS or mineral wool boards.

For façades where it is crucial to keep high water vapour permeability of external partitions - perfect for buildings made of cellular concrete, walls of old buildings, swimming pools or kitchens.

Types of rendered buildings - single	e- and multi – family, public access,
industrial buildings.	

Types of substrates – concrete, traditional plasters on walls made of bricks, blocks and ceramic, cellular or silicate hollow bricks, plasterboards, base coats of thermal insulation systems with polystyrene, XPS and mineral wool boards.

Properties

Modern thin-coat render based on unique mix of organic and inorganic binder. Characterised by very high water vapour permeability assisted by low water absorptiveness and, which is typical for pure silicone renders, great resistance to dirt.

Forms dense and very clear spotted texture 1.5 mm or 2.0 mm thick. Render with aggregate 1.5 mm thick is also recommended for machine appli-

cation with rendering units. BIO PROTECTION – creates unfavorable conditions for fungi and algae growth due to low water absorption and acid-alkaline reaction.

ELASTICITY AND STRENGTH - formula providing improved elasticity and resistance to impacts; render compensates stress resulting from surface hits better, keeps consistent, does not chip off.

COLOUR DURABILITY - advanced technology provides colour durability resulting from the use of modern pigments, automatic system of dozing and permanently supervised process of manufacturing - render keeps its initial colour, is more resistant to bleaching and UV radiation.

ENVIRONMENTALLY FRIENDLY – render recipe was designed in accordance to the sustainable development aspects: maximally reduced amount of volatile organic compounds and use of natural fillers only.

RESISTANT TO CRACKING – improved resistance resulting from the presence of dispersed microfibers, which strengthen the render within its entire volume - render is protected against possible cracks caused by tension and alternate surface heating and cooling.

400 colours	 in accordance with SAH Colour Scheme for Renders and Paints
1 texture	– spotted – N
Aggregate grain size:	– up to 1.5 mm – N-15
	– up to 2.0 mm – N-20

Technical data

ATLAS SILICONE-SILICATE RENDER is manufactured on the basis of organic binders and marble aggregate.

Density of the ready-to-use product	approx. 1.9 g/cm ³
Mass preparation temperature, substrate and ambient temperature during work	
Water vapour permeability g/m²d	V ₁ > 150
Diffusion depending on the air layer thickness	S _d < 0.14 m

Technical requirements

ATLAS SILICONE-SILICATE RENDER conforms to PN-EN 15824 standard. EC Declaration of Performance No. 125/CPR.

CE 0767	PN-EN 15824:2010 (EN 15824:2009)
Thin-coat silicone-silicate render, water – dilutable	for use on internal and external walls, posts and partition walls
Reaction to fire – class	A2-s1, d0
Water vapour permeability – category	V ₁ – high
Water absorption – category	W ₂ – medium
Bonding	≥ 0.35 MPa
Durability (resistance to freeze-thaw cycles)	According to the standard PN-EN 1062-3:2008, for absorption $W_2 \le 0.5 \text{ kg/m}^2 \cdot h^{0.5}$ testing of freeze – thaw resistance is not obligatory.
Thermal conductivity coefficient (average tabular value, P=90%)	0,67 W/mK (λ _{10, dr.}) (EN 1745:2002 tab. A.12)

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z

Rendering

Substrate preparation

- The substrate should be: • stable – sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness.
- concrete walls min. 28 days,
- ۰ dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
- primed with ATLAS SILKON ANX priming mass.

Rendering mass preparation

The render is delivered as a ready to use mass. It must not be mixed with other materials, diluted, or thickened. Just before application, the mass should be mixed in order to unify the consistency.

Mass application

Apply the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and remix. Renders with aggregate 1.5 mm thick can be applied mechanically – the following units recommended:

- MAI 2MULTIPUMP with nozzle 6 mm, operational pressure 1 bar,

- GRACO Textspray RTX 1500 with nozzle 6 mm.

Texture forming

Freshly applied mass requires texture forming with a plastic float, with circular moves. Machine-applied renders are not textured.

Consumption

Average consumption for manual application depends on substrate and render type:

- 2.5 kg for 1 m² for N-15 render,
- 3.2 kg for 1 m² for N-20 render.

The average consumption for machine application is lower than the one listed above, which results from different rendering coat texture (smaller aggregate concentration).

The actual consumption can be established on basis of sample application upon particular substrate.

Important additional information

- ATTENTION! Bucket with a silicone-silicate render, apart from a description placed on the identification label, is highlighted also with an orange lid.
- The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during application and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. In high humidity and temperature close to +5°C the setting time can extend.
- In order to avoid differences in colour shades an individual surface should be coated with silicone-silicate render of the same manufacturing date.
- When rendering external thermal insulation systems one should avoid the use of dark colours, of diffuse reflection coefficient lower than 20%. The share of these colours on façades should not exceed 10% of the surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP 2000 agent.
- 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.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing - the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

Packaging

Plastic buckets: 25 kg Pallet: 600 kg in 25 kg buckets

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-05-09





Forms unique colour compositions based on coloured quartz aggregate – rich colour palette allows for remarkable freedom of designing and execution of exhibition rooms, car showrooms, offices, apartments, staircases, waiting rooms, halls, hallways, façades, etc.

Forms light and durable render of improved resistance to washing, cleaning and abrasion – perfect for plinths, fences, resistance walls, posts - extremely resistant to damage resulting from atmospheric conditions and surface washing. Recommended for surfaces exposed to high thermal and operation loads – owing to high elasticity, perfectly compensates stress resulting from different heat expansion of layers beneath, caused, e.g., by long term exposition to sunlight.

Types of rendered buildings – single- and multi – family, public access, industrial buildings.

Types of substrates – concrete, traditional plasters (cement, cement-lime and gypsum) on walls made of bricks, blocks and ceramic hollow blocks, plasterboards, base coats of thermal insulation systems with polystyrene and XPS boards.

ATLAS DEKO M

decorative mosaic render

- compositions of coloured quartz aggregates
- highly resistant to mechanical damage
- highly resistant to washing and abrasion
- for walls of corridors, exhibition halls, offices
- for façades, plinths, fencing and posts



Properties

 $\ensuremath{\mathsf{Resistant}}$ to structural soiling – low absorptiveness limits the possibility of render structural soiling.

High hardness – owing to the use of quartz aggregate.

Protected with MYCO PROTECT system - creates unfavorable conditions for fungi and algae growth due to low water absorption and acid-alkaline reaction. Water vapour permeable – enables diffusion of water vapour.

Hydrophobic – polymer dispersions limit render absorptiveness without limiting its water vapour permeability.

Can be used in low temperature (0-5 $^{\circ}$ C) and high humidity (above 80%) – after adding ATLAS ESKIMO agent

ATLAS DEKO M render is available in the following options:

Option Form Col		Colours
Option DEKO M: ready-to-use	package contains ready–to–use mass	60 ready-to-use
Option DEKO M: base + aggregate	two components (base in a bucket and aggre- gate dosed according to recipe of a particular colour)	colour compositions – preparation of custom compositions possible as well.
Option TM1	 four components (base in a bucket and aggregate in a particular colour) additionally buckets with silver brocade or black mica 	84 colour composi- tions available – on the basis of 7 aggregate colours. Aggregate of a particular colour packed in a separate bag. Three bags required for render preparation. Available aggregate colours: A1 black, A2 white, A3 brick red, A4 brown, A5 sandstone, A7 silver. Sample colour labelling (three numbers): A1 A2 A3, A1 A1 A1, A4 A5 A1, etc.
Option TM3	two components (base in a bucket and a bag of aggregate composition)	20 ready-to-use colour compositions marked TM3. Sample colour labelling (TM3 and three numbers): TM3 017, TM3 018, etc.

Technical data

ATLAS DEKO M is manufactured on the basis of acrylic resin with coloured quartz aggregate.

Density of the ready-to-use product	approx. 1.7 g/cm ³ (ATLAS DEKO M TM1) approx. 1.6 g/cm ³ (ATLAS DEKO M other types)
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C

Technical requirements

ATLAS DEKO M conforms to PN-EN 15824:2010 standard. EC Declaration of Performance No. 049/CPR.

C € 0767	PN-EN 15824:2010 (EN 15824:2009)
Thin-coat acrylic render, water – dilutable	for use on internal and external walls, posts and partition walls
Reaction to fire – class • for renders up to 2.0 mm • for renders up to 1.2 mm	A2-s1, d0 B-s1, d0
Water vapour permeability – category	V ₂ – medium
Water absorption – category	W ₂ – medium
Bonding	≥ 0.35 MPa
Durability (resistance to freeze-thaw cycles)	According to the standard PN-EN 1062-3:2008, for absorption W2 \leq 0.5 kg/m ² ·h ^{0.5} testing of freeze – thaw resistance is not obligatory.
Thermal conductivity coefficient (average tabular value, P=90%)	0.67 W/mK (λ _{10,dr}) (EN 1745:2002 tab. Å.12)

The render is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z

The product has been given the Radiation Hygiene Certificate.

Rendering

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- gypsum plasters approx. 1.5 cm thick drying in temperature approx. 20°C 14 days,
- concrete walls min. 28 days.

Plasters beneath ATLAS DEKO M should be finished rough, do not extract "bleed water" from gypsum plasters. Traditionally smoothed gypsum plasters should be made matt.

- dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs. (CAUTION! Pay special attention to substrate evenness when using very fine aggregate DEKO M TM1 renders),
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
 primed
- with ATLAS CERPLAST priming mass,
- with ATLAS CERPLAST S priming mass beneath ATLAS DEKO M TM1 type renders used with templates (available on custom order).

Beneath particular colour compositions one should use coloured priming mass ATLAS CERPLAST or ATLAS CERPLAST S available in colours: clinker, brown, graphite, sandstone, grey. In order to emphasize the results of application with templates it is advisable to choose priming mass ATLAS CERPLAST S in colour contrasting with the render composition.

Rendering mass preparation

The render is delivered in the following options:

- ready-to-use mass in a bucket,
- two components base in a bucket and aggregate in a bag (ATLAS DEKO M option TM3),
- four components base in a bucket and aggregate in 3 bags (ATLAS DEKO M option TM1).
- The rendering mass preparation depends on the product form:

Option 1 – mass needs to be stirred before use. It must not be mixed with other materials, diluted or thickened. Just before application, the mass should be mixed in order to unify the consistency.

Option 2 – two components. Pour the aggregate into a bucket with base and mix thoroughly with a mixer with a drill for mortars.

Additionally, ATLAS DEKO M option TM1 can be supplemented with mica or brocade. Note: use only one of the additives with an individual render. Mica or brocade can be added during rendering mass preparation only – pour whole additive package into a bucket with base or a bucket with mixed rendering mass. In the second case – mix thoroughly in order to distribute the additive uniformly within the mass.

Mass application and render smoothing

Apply the rendering mass with a smooth stainless steel trowel, with coat of thickness equal to the aggregate grain size, smooth in one direction in the same time. Lead the trowel at small angle towards the smoothed surface in order to avoid irregularities.

CAUTION! For renders ATLAS DEKO M option TM1, due to fine aggregate, one may find necessary to apply the render in two coats. The second coat can be applied when the first one dries, after approx. 24 hours. Irregular floating (particularly when using brocade or mica additives) can result in uneven render texture and can cause local differences in render shade.

Collect excessive material, put it back in the bucket and remix.

Mass application and render smoothing with templates

When using ATLAS DEKO M option TM1 renders, in order to form additional visual effect, one can use self-adhesive cardboard templates (available on custom order). The template projects shape of natural stone or brick on walls. Coat the substrate with ATLAS CERPLAST S priming mass available on custom order in colours listed in the technical data sheet. When the priming mass dries, stick the templates upon the wall, make sure they adjoin precisely and bond well to the substrate. Apply ATLAS DEKO M option TM1 render as described above. Just after the render application and smoothing, remove the templates – ATLAS CERPLAST S imitates grout between surfaces imitating stones.

Consumption

The actual consumption can be established on basis of sample application upon particular substrate. Depending on coat thickness and substrate type, the average consumption is:

ATLAS DEKO M option: - ready-to-use - base + aggregate Colours labelled with numbers from 111 up to 522	approx. 3 - 4 kg / 1 m²	approx. 4.5-5.5 kg / 1 m ² for renders 120,122, 216, 218, 219, 222, 313, 314, 317, 420, 514, 515
Option TM1	approx. 1.5 – 2.5 kg / 1 m²	
Option TM3 Colours labelled with symbols TM3	approx. 3 - 4 kg / 1 m ²	approx. 4.5-5.5 kg / 1 m ² for renders TM3-007, TM3-012



Important additional information

Use coloured ATLAS CERPLAST or ATLAS CERPLAST S beneath particular render colour compositions:

Priming mass colour	DEKO M colour	DEKO M TM1 colour	DEKO M TM3 colour
brown	120, 221, 316, 512, 513, 514, 516	A4 A4 A1, A3 A4 A1, A4 A4 A3, A4 A5 A3, A4 A7 A3, A4 A4 A4, A3 A4 A2, A4 A4, A3 A4 A2, A4 A4 A2, A4 A5 A4, A4 A7 A4, A4 A6 A4, A4 A6 A3	TM3 013, TM3 016, TM3 017, TM3 018
clinker	121, 220, 319, 320, 416, 417, 418, 517	A3 A3 A1, A3 A5 A3, A3 A6 A3, A3 A7 A3, A3 A4 A3, A3 A3 A3, A3 A3 A2	TM3 019
graphite	122, 219, 314, 315, 419, 420, 518, 519, 522	A1 A7 A1, A1 A6 A1, A1 A1 A1, A4 A5 A1, A1 A5 A1, A1 A2 A1, A1 A5 A1, A1, A1 A3 A1, A3 A5 A1	
sandstone		A5 A5 A2, A5 A5 A5, A5 A7 A5, A5 A6 A5, A5 A5 A5, A1, A5 A5 A3, A5 A5 A4, A5 A6 A4	
grey		A6 A6 A5, A6 A7 A2, A6 A6 A2, A7 A7 A2, A7 A7 A5, A6 A7 A5, A7 A7 A7, A6 A6 A6, A6 A7 A6, A7 A7 A6, A2 A7 A1, A2 A6 A1, A5 A6 A1, A5 A7 A1, A6 A7 A1, A7 A1, A6 A7 A1, A6 A1, A3 A6 A1, A3 A7 A1, A6 A7 A4, A7 A7 A4, A6 A6 A3, A7 A7 A3, A6 A7 A3, A6 A6 A4	

- After application render has milky-white colour and gets proper colour shade after setting. High air humidity and low temperature can extend the time of setting and can cause change in the colour shade.
- On constant contact with water, render can get milky-white colour which disappears when the surface dries. It is not recommended to apply the render upon surfaces exposed to prolonged water action or damp (e.g. horizontal surfaces or those with slight slope, in ponds, etc.) or those without appropriate damp proofing.
- In order to avoid differences in colour shades:
- for ready-to-use option an individual surface should be coated with render of the same manufacturing date,
- for option TM1 when two or three packages of same colour used use packages of the same manufacturing date (date shown on labels on bag front).
- The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- When joining application areas, apply render with the "wet on wet method", prevent the smoothed coat from drying. Otherwise the seams will be visible.
 Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during application and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48. In high humidity and temperature close to +5°C the setting time can extend.
- The tools must be cleaned with clean water directly after use. Difficult to
- remove residues of the set render can be removed with ATLAS SZOP 2000 agent. • 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.

• Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing - the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging (for ATLAS DEKO M ready-to-use). For ATLAS DEKO M option TM3 and TM1 as well as option base + aggregate, the mixed product should be used not later than 12 months from the base production date.

Packaging

Option	Packaging
ATLAS DEKO M ready-to-use	Plastic buckets 15 kg, 25 kg Pallet: 540 kg in 15 kg buckets, 600 kg in 25 kg buckets
ATLAS DEKO M, option TM3	Plastic buckets with base 7.6 kg Paper bags with aggregate 17.7 kg
ATLAS DEKO M, option TM1	Plastic buckets with base 7.6 kg Paper bags with aggregate 5.4 kg Plastic bucket with brocade 125 g Plastic bucket with mica 75 g

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-12-04

PRODUCT	ATLAS CERPLAST/ AVAL KT 16*	ATLAS SILKON ANX/
Defense de sussest	Duine un co	AVAL KI 76
Reference document		ovais for the thermal insulation systems
	TYPE OF RENDER	
Mineral	\checkmark	
Acrylic	\checkmark	
Mosaic (e.g. DEKO M/ KT 77)	\checkmark	
Silicone		\checkmark
Acrylic-silicone	\checkmark	
Silicone-silicate		\checkmark
	TECHNICAL DATA	
Density [g/cm³]	1.5	1.5
Application of render after [h]	4-6	4-6
Temperature during application and substrate temperature [°C]	5-30	5-30
Consumption [kg/m ²]	0.3	0.3

Note:

* Product can be applied as contact coat on difficult substrates e.g. OSB boards, old terrazzo.











Primes substrates beneath ATLAS thin-coat renders – mineral, acrylic, acrylicsilicone and mosaic DEKO M.

Improves bonding – strongly bonds to substrates and applied renders. Limits substrate absorptiveness – prevents excessive water transfer from freshly applied renders into substrates.

Facilitates application of subsequent coat – rough surface reduces "slip" of the applied render.

Forms temporary protective layer for a façade – protects non-rendered façade against weather conditions within half a year.

Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards, thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Contains aggregate – improves bonding owing to significant broadening of the effective surface between layers (forms rough surface).

Protects substrates against adverse effects of the new coat – forms chemical barrier between substrate and render, limits their interaction – reduces colour penetration from substrates and occurrence of stains on the render surface. High bonding – min. 1.0 MPa for concrete.

White priming mass – additionally, with particular ATLAS DEKO M and other thin-coat renders, available in three main colours: brown, clinker, graphite. The priming mass can also be coloured according to SAH Colour Scheme by the tinting systems.

CERPLAST colour (available in 15 kg and 25 kg packages only)	Number of DEKO M render
Brown	120, 221, 316, 512, 513, 514 and 516
Clinker	121, 220, 319, 320, 416, 417, 418 and 517
Graphite	122, 219, 314, 315, 419, 420, 518, 519 and 522

ATLAS CERPLAST

priming mass for renders

- ensures perfect bonding of renders
- reduces absorptiveness and strengthens substrates
- facilitates render application and texture forming
- unifies substrate colour
- available in several colours



Technical data

ATLAS CERPLAST is manufactured on the basis of acrylic resins and quartz powder.

Density of the ready-to-use product	approx. 1.5 g/cm ³
Bonding to concrete	> 1.0 MPa
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Drying time	4 ÷ 6 h

Technical requirements

ATLAS CERPLAST is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS XPS	ETA 07/0316	EC 1488-CPD-0075
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

The mass has been given the Hygienic Evaluation of the National Institute of Hygiene and the Radiation Hygiene Certificate.

Priming

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent.

Mass preparation

The product is manufactured as a ready-to-use mass. It must not be mixed with other materials, thinned or thickened. Just before use, mix the mass in order to unify the consistency.

Mass application

Apply the priming mass upon prepared substrate (uniformly upon the whole surface) using a roller, a brush or mechanically.

Rendering

Rendering or cladding fixing can commence when the mass dries completely, i.e. after 4 \div 6 hours since application.

Consumption

Average consumption: approx. 0.3 kg/1 m².

Important additional information

- Protect the primed surface both during application and mass drying against direct sunlight, wind and precipitation.
- Tools must be cleaned with clean water directly after use.
- Avoid contact with skin and eyes. Avoid release to the environment. Follow the instructions of the Safety Data Sheet.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool
 places, protect against overheating (> 30 °C) and freezing the product freezes
 and irreversibly loses its performance in temperature below 0 °C. Protect against
 direct sunshine. Incompatible materials: avoid contact with aluminum, copper
 and alloys of these metals. Shelf life in conditions as specified is 12 months from
 the production date shown on the packaging.

Packaging

Plastic buckets: 5 kg, 10 kg, 15 kg and 25 kg

Pallet: 625 kg in 5 kg buckets, 650 kg in 10 kg buckets, 660 kg in 15 kg buckets, 600 kg in 25 buckets.

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-05-26











Primes substrates beneath ATLAS thin-coat silicone and silicone-silicate renders.

Improves bonding – strongly bonds to substrates and applied renders. Limits substrate absorptiveness – prevents excessive water transfer from freshly applied renders into substrates.

Facilitates application of subsequent coat – rough surface reduces "slip" of the applied render.

Forms temporary protective layer for a façade – protects non-rendered façade against weather conditions within half a year.

Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards, thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Contains aggregate – improves bonding owing to significant broadening of the effective surface between layers (forms rough surface).

Protects substrates against adverse effects of the new coat – forms chemical barrier between substrate and render, limits their interaction – reduces colour penetration from substrates and occurrence of stains on the render surface. High bonding – min. 1.0 MPa for concrete.

ATLAS SILKON ANX

priming mass for silicone and silicone-silicate renders

- ensures perfect bonding of renders
- reduces absorptiveness and strengthens substrates
- facilitates render application and texture forming
- unifies substrate colour
- water vapour permeable



Technical data

ATLAS SILKON ANX is manufactured on the basis of organosilicon resin and quartz powder.

Density of the ready-to-use product	approx. 1.5 g/cm ³
Bonding to concrete	> 1.0 MPa
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +30°C
Drying time	4 ÷ 6 h

Technical requirements

ATLAS SILKON ANX is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS XPS	ETA 07/0316	EC 1488-CPD-0075
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.

The mass has been given the Radiation Hygiene Certificate.

Priming

Substrate preparation

The substrate should be:

- stable sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
- new cement plasters made of ATLAS mortars min. 1 week for each 1 cm of thickness,
- concrete walls min. 28 days,
- dry,
- even irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- clean free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent.

Mass preparation

The product is manufactured as a ready-to-use mass. It must not be mixed with other materials, thinned or thickened. Just before use, mix the mass in order to unify the consistency.

Mass application

Apply the priming mass upon prepared substrate (uniformly upon the whole surface) using a roller or a brush.

Rendering

Rendering can commence when the mass dries completely, i.e. after 4 \div 6 hours since application.

Consumption

Average consumption: approx. 0.3 kg/1 m².

Important additional information

- Protect the primed surface both during application and mass drying against direct sunlight, wind and precipitation.
- Tools must be cleaned with clean water directly after use.
- Avoid contact with skin and eyes. In case of contact with eyes seek medical advice. Follow the instructions of the Safety Data Sheet.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

Packaging

Plastic buckets: 15 kg Pallet: 660 kg in 15 kg buckets.

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.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-03-05

