



PRIMERS

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PRIMERS

Priming

Priming preparations are designed to provide each consecutively applied layer with proper bonding to substrate. Appropriate choice of priming method is in many cases more than half of the success. The type of priming substance has to be selected in accordance to substrate type, its absorptiveness and cleanliness, but also to type of coat applied upon the substrate.

Primers strengthening and regulating substrate absorptiveness

Traditional priming emulsions – ATLAS UNI-GRUNT, ATLAS UNI-GRUNT PLUS and ATLAS optiGRUNT – are manufactured on the basis of high quality water dispersion of acrylics. Owing to significant penetration ability, they permeate deep into the substrate, reinforce it and unify parametres of the whole primed surface. Apart from that, they regulate substrate absorption and prevent retention of excessive amount of water from the coat placed upon it, e.g. finishing coats, tile adhesives, screeds, etc. This way the conditions for mortar setting are improved and contribute to reaching the designed technological parameters, mainly adhesiveness and resistance.

Primers improving bonding

When substrate is characterized by very low adhesiveness and low absorptivity, application of priming emulsion cannot provide appropriate bonding. This type of difficult substrates includes: concrete, terrazzo, OSB boards, difficult to remove layers of adhesives, paints, tars, ceramic tiles, etc. In such situations ATLAS GRUNTO-PLAST mass should be used in order to form a contact coat.

Function of aggregate

ATLAS GRUNTO-PLAST contains aggregate, which makes the coated surfaces rough. First of all, such roughness facilitates application of consecutive layers (no slipping of the applied material). Secondly, it "expands" effective substrate surface – bonding of the subsequent layer depends directly on size of surface contacting the substrate. **Function of resin**

ATLAS GRUNTO-PLAST is manufactured on the basis of resins giving the mass very high bonding both to the substrate and to the subsequent coat. Owing to significant content of resins, the primer protects freshly applied thin coat, e.g. of top finish, against discolouration caused by the substrate.

PRODUCT	ATLAS UNI-GRUNT/ AVAL KT 17 Fast drying priming emulsion	ATLAS UNI-GRUNT PLUS/ AVAL KN 97 Deep-penetrating priming emulsion	ATLAS OPTIGRUNT General-use priming emulsion	ATLAS GRUNTO-PLAST Adhesion layer for difficult substrates		
Reference document	Primers and impregnators are	e not classified as construction materials, they	are not covered by standards and therefore	require no technical approvals.		
	TECHNICAL DATA					
Density [g/cm ³]	1.0	1.0	1.0	1.5		
Way of application	roller/brush	roller/brush	roller/brush	roller/brush		
Substrate temperature and tempera- ture during work [°C]	5-25	5-25	5-25	5-30		
Consumption [kg/m ²]	0.05-0.20	0.05-0.20	0.05-0.20	0.3		
Further works since priming [h]	2	4	2	24		
SAMPLE SUBSTRATES						
Bricks, ceramic hollow blocks, cellular concrete, silicates	\checkmark		\checkmark			
Cement, cement-lime and gypsum plasters, plasterboards	\checkmark		\checkmark			
Old cement screeds	\checkmark	\checkmark				
Anhydrite screeds	\checkmark	\checkmark				
Anhydrite screeds Concrete screeds	√ √	✓		✓		
Anhydrite screeds Concrete screeds Formwork concrete	✓ ✓	✓		✓ ✓		
Anhydrite screeds Concrete screeds Formwork concrete OSB boards	✓ ✓	✓		✓ ✓ ✓		
Anhydrite screeds Concrete screeds Formwork concrete OSB boards Terrazzo	✓ ✓			✓ ✓ ✓ ✓ ✓		



ATLAS UNI-GRUNT

fast drying priming and strengthening emulsion

- unifies substrate absorptiveness
- strengthens substrates
- under floors and screeds
- under adhesives, plasters, top finishes, paints
- high yield



Use

Improves setting conditions of mortars – contributes to reaching their expected technical parameters.

Strengthens surface of primed mineral substrates – permeates the surface, strengthens and improves its load capacity. Prevents retention of excessive amount of water from the coat applied upon

Prevents retention of excessive amount of water from the coat applied upon the substrate – limits the substrate absorptiveness.

Unifies absorptiveness of the whole primed surface – the applied layer has similar setting conditions, irrespective of local changes of substrate parameters. Forms temporary protective layers on floors and screeds – improves floor resistance against dusting, facilitates cleaning (must not be considered as the top finish coat).

Improves the yield of paints, top finishes and adhesives – by sealing the structure of primed surface, it improves the yield of materials used for the execution of the subsequent layer.

Types of primed substrates – absorbent, excessively absorptive and weak: concrete, plasterboards, gypsum and cement plasters, rough walls made of any type of bricks, blocks, hollow blocks, as well as concrete and anhydrite screeds.

Types of finishing layers – cladding, plasters, screeds, finishing coats, wallpapers, paints (follow paint manufacturer's guidelines), WODER E, WODER W, WODER DUO or WODER S water- and damp proofing.

Properties

Very short drying time – finishing coats can be applied just after 2 hours. Solvent-free – manufactured on the basis of water dispersion of acrylic resin. Non-saponifiable during application.

Transparent after drying.

Water vapour permeable.

Inflammable - can be used in premises without windows.

Technical data

ATLAS UNI-GRUNT is a priming impregnator manufactured on the basis of high quality water dispersion of acrylics. The priming paint of setting characteristics: maximum content of VOC in the product 1.92 g/l, maximum allowable content of VOC 30 g/l.

Density of emulsion	approx. 1.0 g/cm ³
Substrate and ambient temperature during work	from +5°C up to +25°C
Further work after priming	after 2 hours

Technical requirements

The product is not classified as a construction material. The product has been given the Hygiene Evaluation and the Radiation Hygiene Certificate.

Priming

Substrate preparation

The substrate should be dry, free from dust, dirt, oils, grease and wax. Remove any loose, poorly bonded layers before the emulsion application.

Emulsion preparation

ATLAS UNI-GRUNT is manufactured as a ready-to-use emulsion. It must not be mixed with other materials or thickened. It is admissible to dilute it in weight ratio: - 1:1 for the first priming, in case of double priming of very weak substrates,

- 1:3 in case of priming substrates under ATLAS paints for indoor use.

Priming

It is advisable to apply the emulsion upon the substrate in undiluted form, once, using a roller or a brush, with thin and uniform coat. For the first priming of very absorptive and weak substrates, emulsion diluted with water in 1:1 ratio can be used. When the first coat dries, repeat the priming with undiluted emulsion. **Surface use**

Surface use

Painting, wallpapering, tiling, etc., can commence when emulsion dries, i.e. after approx. 2 hours since application. The primer should form matt surface after drying.

Consumption

The average consumption is 0.05 \div 0.2 kg of emulsion for 1 m². In practice, the consumption depends on the substrate absorptiveness.

Important additional information

- When priming gypsum substrates before painting, one should follow guidelines
 of the paint manufacturer.
- Clean the tools with clean water directly after use.
- Possible emulsion stains can be removed with ATLAS SZOP 2000 agent.
- Keep out of reach of children. Avoid contact with skin and eyes. Follow the instructions of the Safety Data Sheet.
- The emulsion must be transported and stored in tightly sealed packaging, in dry conditions and positive temperature. Protect against overheating. The emulsion shelf life is 12 months from the production date shown on the packaging.

Packaging

Plastic drums: 1 kg, 5 kg, 10 kg Pallet: 576 kg in 1 kg drums, 540 kg in 5 kg drums, 600 kg in 10 kg drums

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: 2014-11-19



ATLAS UNI-GRUNT PLUS

deep penetrating priming and strengthening emulsion

- for excessively absorptive substrates
- for weak and poor substrates
- under floors and screeds
- under adhesives
- high yield



Use

Improves setting conditions of floors and screeds applied on the primed substrate - contributes to reaching their expected technical parameters.

Strengthens substrates structurally - penetrates the substrate up to a few milimetres deep and therefore improves its load capacity when prepared for subsequent lavers.

Prevents retention of excessive amount of water from the coat applied upon the substrate - limits the substrate absorptiveness and prevents occurrence of bubbles on surface of freshly applied floors or screeds.

Unifies absorptiveness of the whole primed surface - the applied layer has similar setting conditions, irrespective of local changes of substrate parameters. Forms temporary protective layers on floors and screeds - improves floor resistance against dusting, facilitates cleaning (must not be considered as the top finish coat).

Improves the yield of adhesives, floors and screeds - by sealing the structure of primed surface, it improves the yield of materials used for the execution of the subsequent laver.

Types of primed substrates - absorbent, excessively absorptive and weak concrete and anhydrite floors, screeds, etc.

Types of finishing layers - ceramic and stone cladding, floors, screeds, WODER E, WODER W, WODER DUO or WODER S water- and damp proofing.

Properties

Improved penetration ability - penetrates floor or screed deeply, therefore offers not only surface action.

Short drying time - finishing coats can be applied just after 4 hours. Solvent-free - manufactured on the basis of water dispersion of acrylic resin.

Non-saponifiable during application.

Transparent after drying.

Water vapour permeable. Inflammable - can be used in premises without windows.

Technical data

ATLAS UNI-GRUNT PLUS is a priming impregnator manufactured on the basis of high quality water dispersion of acrylics. The priming paint of setting characteristics: maximum content of VOC in the product 2.75 g/l, maximum allowable content of VOC 30 g/l.

Density of emulsion	approx. 1.0 g/cm ³
Substrate and ambient temperature during work	from +5°C up to +25°C
Further work after priming	after 4 hours

Technical requirements

The product is not classified as a construction material. The product has been given the Radiation Hygiene Certificate.

Priming

Substrate preparation

The substrate should be dry, free from dust, dirt, oils, grease and wax. Remove any loose, poorly bonded layers before the emulsion application.

Emulsion preparation

ATLAS UNI-GRUNT PLUS is manufactured as a ready-to-use emulsion. It must not be mixed with other materials or thickened.

Primina

It is advisable to apply the emulsion upon the substrate in undiluted form, once, using a roller or a brush, with thin and uniform coat.

Surface use

Tiling, flooring, etc., can commence when emulsion dries, i.e. after approx. 4 hours since application.

Consumption

The average consumption is $0.05 \div 0.2$ kg of emulsion for 1 m². In practice, the consumption depends on the substrate absorptiveness.

Important additional information

- · Clean the tools with clean water directly after use.
- Possible emulsion stains can be removed with ATLAS SZOP 2000 agent.
- · Keep out of reach of children. Avoid contact with skin and eyes. Follow the instructions of the Safety Data Sheet.
- The emulsion must be transported and stored in tightly sealed packaging, in dry conditions and positive temperature. Protect against overheating. The emulsion shelf life is 12 months from the production date shown on the packaging.

Packaging

Plastic drums: 1 kg, 5 kg Pallet: 576 kg in 1 kg drums, 540 kg in 5 kg drums

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: 2014-01-10





ATLAS optiGRUNT general-use priming emulsion

- unifies substrate absorptiveness
- fast-drying
- under paints, adhesives, plasters, top finishes
- strengthens the substrate



Use

For appropriate preparation of substrates prior to further finishing work: painting with paints for indoor use, tiling, application of gypsum top finishes, plasters, screeds, water- and damp proofing.

Limits substrate absorptiveness – improves bonding to substrates, keeps water vapour permeability of walls, facilitates application of subsequent layers, e.g. paints, adhesives.

Forms temporary protective layers on floors and screeds – improves floor resistance against dusting, facilitates cleaning (must not be considered as the top finish coat).

Types of finishing layers – cladding, plasters, screeds, finishing coats, wallpapers, paints (follow paint manufacturer's guidelines), water- and damp proofing.

Properties

Very short drying time – finishing coats can be applied just after 2 hours. Solvent-free – manufactured on the basis of water dispersion of acrylic resin. Non-saponifiable during application.

Transparent after drying.

Water vapour permeable.

Inflammable - can be used in premises without windows.

Technical data

ATLAS optiGRUNT is a priming impregnator manufactured on the basis of high quality water dispersion of acrylics. The priming paint of setting characteristics: maximum content of VOC in the product 1.8 g/l, maximum allowable content of VOC 30 g/l.

Density of emulsion	approx. 1.0 g/cm ³
Substrate and ambient temperature during work	from +5°C up to +25°C
Further work after priming	after 2 hours

Technical requirements

The product is not classified as a construction material.

Priming

Substrate preparation

The substrate should be clean, dry, free from dust, crack-free, well bonded to substrate. Protect any neighbouring surfaces with foil before the emulsion application. Hard to remove after drying.

Emulsion preparation

ATLAS optiGRUNT is manufactured as a ready-to-use emulsion. Mix well before use. **Priming**

Apply the emulsion upon the substrate using a roller or a brush, with thin and uniform coat

Surface use

Painting, wallpapering, tiling, etc., can commence when emulsion dries, i.e. after approx. 2 hours since application.

Consumption

The average consumption is 0.05 \div 0.2 kg of emulsion for 1 m². In practice, the consumption depends on the substrate absorptiveness.

Important additional information

- When priming gypsum substrates before painting, one should follow guidelines
 of the paint manufacturer.
- · Clean the tools with clean water directly after use.
- Possible emulsion stains can be removed with ATLAS SZOP 2000 agent.
- Keep out of reach of children. Avoid contact with skin and eyes. Follow the instructions of the Safety Data Sheet.
- The emulsion must be transported and stored in tightly sealed packaging, in dry conditions and positive temperature. Protect against overheating. The emulsion shelf life is 12 months from the production date shown on the packaging.

Packaging

Plastic drums: 5 kg Pallet: 540 kg in 5 kg drums

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: 2014-07-07

ATLAS GRUNTO-PLAST contact coat for difficult substrates

- strengthens substrates and improves bonding
- on existing tiles, terrazzo, dados
- on non-absorptive concrete, OSB boards
- under adhesives, top finishes, water- and damp proofing
- on walls and floors (also with heating systems)



Use

Primer for difficult substrates – improves bonding of adhesives, water- and damp proofing, finishing coats to substrates of low absorptiveness, to extremely smooth substrates or those coated with old PVC adhesives, paints, etc. Improves bonding – strongly bonds to substrates and freshly applied layers.

Facilitates the application of subsequent layers – rough surface reduces the "slip" of the applied material.

Protects fresh layers against adverse effects of the substrate – forms chemical barrier between substrate and freshly applied layer, limits the influence of one upon the other – limits colour protrusion from the substrate and formation of stains on the surface of finishing coat.

Prevents wooden substrates from **excessive damp** – resulting from contact with freshly applied wet layer.

Types of primed substrates – non-absorptive substrates, e.g. concrete, old tiles, terrazzo, OSB board.

Types of subsequent layers – adhesives for tiles, plasters, screeds, finishing coats, WODER E, WODER W, WODER DUO or WODER S water- and damp proofing.

Properties

Contains aggregate – improves bonding owing to significant expansion of the effective surface between layers (forms rough surface). Manufactured in white colour.

Technical data

ATLAS GRUNTO-PLAST is manufactured as a ready-to-use mass based on acrylic

Density	approx. 1.5 g/cm ³
Bonding to concrete	>1.0 MPa
Substrate and ambient temperature during work	from +5°C up to +30°C
Further work after priming	after approx. 24 hours

Technical requirements

The product is not classified as a construction material.



Priming

Substrate preparation

The substrate should be dry, free from dust, dirt, oils, grease and wax. Remove any loose, poorly bonded layers before the emulsion application.

Mass preparation

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

Priming

Apply the mass upon the prepared substrate with uniform coat using a roller or a brush.

Application of finishing layers

Tiling, floating, water- and damp proofing can commence when mass fully dries, i.e. after approx. 24 hours since application.

Consumption

The average consumption is 0.3 kg of mass for 1 m².

Important additional information

- Clean the tools with clean water directly after use.
- During application and drying, the primed surface should be protected against direct sunshine, wind action and precipitation.
- · 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 Pallet: 625 kg in 5 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: 2015-11-22

