ATAL MONOSEAL PROFAST PRIMER-RW TECHNICAL DATASHEET

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Structural Waterproofing Systems

MonoSeal ProFast Primer- RW

Description and application

A solvent-free, all-purpose and colored roll-on primer containing polyurea resins with corrosion-resistant and fast drying properties.

Suitable for both dry and slightly damp mineral surfaces (<10%), wood and metals. Also, under certain conditions, suitable for aluminum and stainless steel. For more information, see “surface”.

Properties

- Corrosion-resistant
- Shrink-resistant and solvent-free
- Fast drying
- Suitable for both indoors and outdoors
- Adheres to dry and wet mineral surfaces < 10% parts by weight

Bond Strength

- Dry mineral surfaces > 5.5 N/mm²
- Moist minerale surfaces > 2.2 N/mm²

Thermal

Load	*Dry heat*
Permanent	+80ºC
Brief (a maximum of 7 days)	+100ºC
Brief (a maximum of 12 hours)	+120ºC

Brief wet heat up to a maximum of +80ºC and only occasionally, for instance when steam-cleaning. Simultaneous chemical and mechanical loads are not permitted.

Liquid product properties

Colour Oyster white ± Ral 1013

Density 1,41 mixed product

Volume solids 100%

VOC content 128 gram/l

Shelf life At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost.

Application information

Method - Roller, brush, airless, airmix, gravity cup spray.

Coverage - 0,10 – 0,30 kg /m2. The usage per m2 depends aon the type of surface.

Mixing ratio - 780 gram A : 220 gram B

Dilution - Preferably not. ProFast Thinner. Maximum 5% only to be added once base and hardener have been mixed. Adding thinner will affect the final physical properties.

Potlife** 15ºC approx. 35 minutes

20ºC approx. 30 minutes

25ºC approx. 25 minutes

Application temp.

Substrate between 0ºC and +30ºC

Product between +10ºC and +25ºC

Walkable* 0ºC after 3,0 Hr

10ºC after 2,0 Hr

20ºC after 1,0 Hr

25ºC after 45 Min

Recoat time* 0ºC Min. 3,0 Hr Max. 48 Hr

10ºC Min. 2,0 Hr Max. 48 Hr

20ºC Min. 1,0 Hr Max. 24 Hr

25ºC Min. 45 Min Max. 24 Hr

Chemical load 3 x 24 hrs*

Water load 2 - 3 hrs*

Mechanical load 2 - 3 hrs*

Cleaning agent Roca Cleaner R5518 (tools)

*Values are given at 65% relative humidity and 0,25 kg /m2. Extra caution should be exercised at low temperatures. The times and values given are approximates only and are affected by fluctuating surface and environmental conditions such as temperature, relative humidity ventilation and usage per m2.

Mixing instructions

Two-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine/drill. Use a suitable mixer and/or whisk of the correct size. As a guideline, the diameter of the mixer or whisk must be at least 1/3 of the diameter of the container in which the product is mixed.

First, mix the base component and the hardener together. Pour some of the mixed material back into the hardener container and mix it in the container until all the hardener has been used.

Next, pour this mixture back into the base component container and mix it again until a homogenous mixture is obtained.

When combining partial containers, both components must be carefully stirred and weighed.

Comments during application

Two-component products may only be applied when the relative humidity is less than 85%.

The minimum application temperature is 0°C and the temperature of the surface to be treated must be 3°C above the dew point. Check the dew point table.

Full curing is accelerated in high ambient or substrate temperatures and slowed in lower temperatures. Pot life times depend on product temperature. Care should be taken on both counts.

If after having applied a layer, the surface does not appear to have been fully sealed, a second layer may be applied. Because of the drying time in combination with the thickness it's better to apply two thin layers instead of a thick layer.

Surface conditions

Mineral surfaces

All concrete surfaces must be at least 28 days of age. The substrate must be absorbent in nature. The surface must be healthy, with a minimum compression strength of 25 N/mm2 and a minimum bond strength of 1,5 N/mm2.

The surface must be clean and free of diesel, oils and grease. All loose friable materials and foreign bodies must be removed by abrasive blasting, captive blasting, high pressure water blasting. This is to remove all surface laitance. Monolithic floors and formed surfaces must be abrasive blasted or other preparation means to clean and profile.

Moisture content of surface: < 10% (parts by weight).

The surface should be free of any free water film. The surface must be free from pressure or rising water from the subsoil.

For heavily loaded systems, such as rooftop car parks and petrol stations, where torque may play a role, it is recommended to lightly mineral-surface the primer layer using kiln-dried quartz sand 0.4 - 0.8 mm. Warning: apply conservatively, there should be no dense granular structure.

The usage on mineral surfaces will be 200 – 250 gram /m2. Avoid any uneven thicknesses.

Wooden surfaces

The surface must be clean and free of diesel, oils and grease. The usage will be 100 – 150 grams/m2. Avoid any uneven thicknesses.

Metal surfaces

The following applies in general. The surface must be free of substances which may have a negative affect on adhesion, such as oils and fats. If these types of substances are present, they must first be removed with the appropriate agents and/or tools.

Steel, sanded

- Thoroughly sand mechanically until the surface is matt and remove all dust.
- Pre-treat the surface with Prokol Adhesion □

Steel, blasted

- Surface blasting, Sa 2½, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust. Formation of surface rust must be avoided at all times.
- Pre-treat the surface with Prokol Adhesion Promotor-S.
- Apply ProFast Primer RW to the surface with a spread of 100 - 150 grams/m2. Avoid any uneven thicknesses.

Aluminium

- Thoroughly sand mechanically until the surface is matt and remove all dust.
- Pre-treat the surface with Prokol Adhesion Promotor-S.
- Apply ProFast Primer RW to the surface with a spread of 100 - 150 grams/m2. Avoid any uneven thicknesses.
- Stainless steel
- Surface blasting, Sa 2½, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust.
- Pre-treat the surface with Prokol Adhesion Promotor-S.
- Apply ProFast Primer RW to the surface with a spread of 100 - 150 grams/m2. Avoid any uneven thicknesses.Promotor- S.

Stainless steel

- Surface blasting, Sa 2½, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust.
- Pre-treat the surface with Prokol Adhesion Promotor-S.
- Apply ProFast Primer RW to the surface with a spread of 100 - 150 grams/m2. Avoid any uneven thicknesses.

Important

Projects and uses can vary greatly. Always contact your supplier if in doubt about a certain use, choice of material or surface treatment.

All the technical information given in this technical information sheet is based on laboratory tests. Information can change, depending on the conditions.

Legal notification

The information and in particular, the recommendations concerning the application and final use of Prokol products is issued in good faith based on Prokol's current knowledge and experience of products that are correctly stored, handled and applied under normal conditions.

In practice, the differences in materials, substrates and local conditions are such that no guarantee can be given concerning the marketability or suitability for a certain objective, nor can any

liability arise from any legal relationship based on this information, nor from any written recommendations or other advice that is given. The property rights of third parties must be respected.

Prokol guarantees that its products are free from manufacturing faults. Multi-component products are a finished product once the components have been mixed and processed. When mixed and processed correctly, the product will achieve the specifications given. Prokol can only guarantee the product when surfaces are processed and pre-treated correctly.

Users must always refer to the most recent product safety information sheet and product information sheet for the product concerned. A copy of these sheets will be provided on request and is also available from www.prokol.nl. This requires a login name and a password.

The publication of this product information sheet makes all previous product information sheets for this product invalid.