

ProFast Primer N

Description and application

Solvent-free, autocatalytic, quick-curing, pigmented primer based on polyurea resins.

Suitable as a fast-curing primer on both dry and moist mineral surfaces (<10%), wood and metal. This primer has brilliant sealing properties and will, in most cases, seal the surface after only one application. ProFast Primer N is concrete grey of colour.

The short recoat time of 75 minutes on average makes it possible to apply a sealing layer of ProFast Primer N as well as a self-levelling screed, coating or hot spray system on the same day. This will save you products and money, especially on smaller surfaces up to 200 m². For the time being it may not be used as a primer in basins and swimming pools (suitability study is still ongoing).

Article number and packaging

11017-4	4 kg set
11017-10	10 kg set

Properties

- Shrink-proof and fully solvent-free
- Fast-curing
- Seals highly porous surfaces
- Suitable for both indoor and outdoor use
- Adheres to both dry and moist surfaces up to a moisture level of 10%
- Can be recoated with coatings, cast flooring and hot sprays after 1 hour.

Adhesion strength

- Dry mineral surfaces > 5,5 MPa
- Moist mineral surfaces > 2,2 MPa

Thermal

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

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

Properties liquid product

Colour	Concrete grey
Density	1,15 kg/l mixed product
Volume solids	100%
Shelf life	At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost.

Application information

Method	Trowel, squeegee, roller or brush <i>For roll and brush application dilution is needed.</i>		
Usage	0,20 – 0,50 kg/m ² /layer <i>Surface dependent</i>		
Mixing ratio	735 gram A : 265 gram B		
Dilution	ProFast thinner. A maximum of 5% only to be added once base (A) and hardener (B) have been mixed. Adding thinner can affect the curing times.		
Potlife	At 15 °C	approx. 30 minutes	
	At 20 °C	approx. 25 minutes	
	At 25 °C	approx. 20 minutes	
Processing temp.	Object	-10 and +30 °C	
	Product	+10 and +25 °C	
Walkable	At -10 °C	After 3 hours	
	At 0 °C	After 2,5 hours	
	At 10 °C	After 2 hours	
	At 20 °C	After 1,5 hour	
	At 25 °C	After 1 hour	
Recoat time	At -10 °C	Min. 3 hours	Max. 96 hours
	At 0 °C	Min. 2,5 hours	Max. 96 hours
	At 10 °C	Min. 2 hours	Max. 96 hours
	At 20 °C	Min. 1,5 hour	Max. 72 hours
	At 25 °C	Min. 1 hour	Max. 48 hours
Chemical resistant*	After 3 x 24 hours		
Mechanical resistant*	After 2 – 3 hours		
Cleaning agent	Roca Cleaner R5518 (equipment)		

The times and values given are approximate and are affected by fluctuating surface and environmental conditions such as (product)temperature, relative humidity and layer thickness. Values are given at 0,40 kg/m²/layer

* At 20 °C and 65% RH surface.
** At 1 kg and 20 °C product.



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Mixing instructions

2-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine/drill (300 – 400 RPM) or another suitable mixer/whisk. As a guideline, the diameter of the mixer/whisk must be at least 1/3 of the diameter of the container in which the product is mixed in.

First mix component A until it is a homogenous mixture. Add component B (completely drained or scraped) to component A and mix at least 2-3 minutes until it is a homogenous mixture. To exclude unmixed materials (bottom/sides) are processed, transfer the mixture to a clean mixing bucket/tub and mix again.

When using additives such as quartz sand or the like, only add when the mixture is a homogenous mixture. After adding, please mix thoroughly again.

When mixing parts, both components must be mixed separately and carefully and weighed accurately.

Notes during application

Due to its high sealing capabilities, the primer should preferably be applied with a trowel or squeegee. You can use a brush or a roller, but more effort will be required to spread evenly and achieve the correct consumption. Dilution is desirable.

If after having applied a first layer and the surface does not appear to have been fully sealed, a second layer may be applied. Any additives used in the product must be fully dry. Moisture acts as an accelerator.

2-component products may only be applied when the relative humidity is less than 85%. The minimum surface temperature is -10° C and the temperature of the surface to be treated and the uncured product must be 3° C above the dew point. See the dew point table.

The curing process occurs more quickly at higher temperatures and slower at lower temperatures. Do not apply in thick layers. Use a maximum of 500 g/m² and apply, if necessary, a second layer. When desired, a quartz mixture or silver sand can be added to the mixed product for a higher filling capacity. The potlife is partly dependent on the product temperature.

Surface and circumstances

The surface must be absorbent in nature. The surface must be healthy, with a minimum compression strength of 25 MPa and a minimum adhesion strength of 1,5 MPa.

The surface must be clean and free of grease. All loose components must be removed. Concrete must be at least 28 days old. Any cement skin must be removed. Monolithic floors must be sanded and any dust must be removed.

Moisture content surface

- cement-bound : < 10% CM (parts by weights)
- plaster-bound : < 0,5% CM (parts by weights)

Anhydrite floors need to be sanded and treated with highly impregnating primer type ProFast Multi-TR (diluted) in order to strengthen the surface of the anhydrite floor. Apply another layer of ProFast Primer-N to completely seal the surface.

For heavily loaded systems, such as rooftop car parks and petrol stations, where torque may play a role, it is recommended to partly scatter the primer layer using fire-dried quartz sand 0.4 - 0.8 mm. **Be aware!** Scatter conservatively, there should be no dense granular structure.

For detailed information regarding pre-treatment of the surfaces, please see the "surface pre-treatment" information sheet.

Important

Projects and applications can vary greatly. Always contact your supplier if you have doubts about a certain application, 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, surfaces 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.

* At 20 °C and 65% RH surface.
** At 1 kg and 20 °C product.



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Prokol can only guarantee the product when surfaces are processed and pre-treated correctly.

All orders are accepted under the current sales and delivery conditions. Users must always refer to the most recent product safety information sheet and product information sheet for the product concerned.

Copies of the most recent editions are provided upon request and are available at www.prokol.com.

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

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