MonoPrime **P-RW**

Description and application

An all-purpose, autocatalytic, coloured primer based on polyurea resins with rust-inhibiting and quick-curing properties.

Suitable for both dry and slightly damp mineral surfaces (<10%), wood and metals. Also, under certain conditions, suitable for aluminium and stainless steel.

Article number and packaging

11060-5	5 kg set
11060-10	10 kg set

Properties

- Corrosion resistant
- Shrink resistant
- Fast curing
- Suitable for both indoor and outdoor use
- Adheres to dry and wet mineral surfaces <10% parts by weights

Adhesion strength

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

Thermal

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

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

Properties liquid product

Colour	Pearl white, approx. RAL 1013
Density	1,41 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	Roller, brush, airless, gravity cup spray	
Usage	0,10 – 0,30 kg/m²/layer *Surface dependent*	
Mixing ratio	780 gram A : 220 gram B	
Dilution	No thinner is preferred. Otherwise a 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 ºC	approx. 35 minutes
	At 20 ºC	approx. 30 minutes
	At 25 ºC	approx. 25 minutes
Application temp.	Surface	+0 and +30 ºC
	Product	+10 and +25 ºC
Walkable	At 0 ºC	After 3 hours
	At 10 ºC	After 2 hours
	At 20 ºC	After 1 hour
	At 25 ºC	After 45 minutes
Recoat time	At 0 ºC	Min. 3 hour Max. 48 hours
	At 10 ºC	Min. 2 hour Max. 48 hours
	At 20 ºC	Min. 1 hour Max. 24 hours
	At 25 ºC	Min. 45 min. Max. 24 hours
Chemical resistant*	After 3 x 24 hours	
Water resistant*	After 2 – 3 hours	
Mechanical resistant*	After 2 – 3 hours	
Dilution	Not permitted	
Cleaning agent	Roca Cleaner R5518 (equipment)	

At low temperatures, extra care should be taken with regarding curing and recoat times. 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 0,25 kg/m²/layer

Mixing instructions

2-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine on low speed (300 – 400 RPM) or other suitable mixing equipment. Use a clean mixing rod which matches the size of the container. Mixing too fast and too long should be avoided in order to minimise air entrapment.

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.

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

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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

2-component products may only be applied when the relative humidity is less than 85%. The minimum surface temperature is 0 °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.

The potlife is partly dependent on the product temperature and the package size.

Surface and circumstances

Mineral surfaces

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 for normal used flooring and 2 MPa for heavy load flooring.

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)

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 partly scatter the primer layer using fire-dried quartz sand 0.3 - 0.8 mm. **Be aware!** Scatter conservatively, there should be no dense granular structure.

The usage on mineral surfaces is 0,20 – 0,25 kg/m²/layer on a flat surface. The development of puddles needs to be prevented because it will strongly influence the curing time.

Wooden surfaces

The surface must be dry, clean and free of grease.

The usage on mineral surfaces is 0,10 – 0,15 kg/m²/layer on a flat surface. The development of puddles needs to be prevented because it will strongly influence the curing time.

Metal surfaces

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

- Steel, sanded
  - Sand thoroughly and mechanically until the surface is matt and remove all dust.
  - Pre-treat the surface with TX Adhesion Promotor.
  - Apply MonoPrime P-RW to the surface with a usage of 0,10 – 0,15 kg/m²/layer. Avoid any uneven thicknesses (puddles).
- Steel, blasted
  - Surface blasting, Sa 2,5, 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 TX Adhesion Promotor.
  - Apply MonoPrime P-RW to the surface with a spread of 0,10 – 0,15 kg/m²/layer. Avoid any uneven thicknesses (puddles).
- Aluminium
  - Sand thoroughly and mechanically until the surface is matt and remove all dust.
  - Pre-treat the surface with TX Adhesion Promotor.
  - Apply MonoPrime P-RW to the surface with a spread of 0,10 – 0,15 kg/m²/layer. Avoid any uneven thicknesses (puddles).
- Stainless steel
  - Surface blasting, Sa 2,5, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust.
  - Pre-treat the surface with TX Adhesion Promotor.
  - Apply MonoPrime P-RW to the surface with a spread of 0,10 – 0,15 kg/m²/layer. Avoid any uneven thicknesses (puddles).

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

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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. 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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