

Description and application

2-component, solvent-free, castable, sealing membrane based on polyurea technology with crack-bridging and wear-resistant properties.

Can be used on rooftop car parks, slip roads, exits, bridge decks, balconies, terraces, galleries, rooftop gardens and floors.

Article number and packaging

23040-10	10 kg set
23040-25	20 kg set

Properties

- Crack-bridging (depends on layer thickness)
- Highly flexible with tensile strength
- High crack resistance
- Can be finished in colours
- Vapour-permeable but liquid-proof
- Chemical-resistant
- Large range in layer thickness
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Elongation	± 500%
Tensile strength	18 MPa
Shore hardness	± 92A
Crack resistance	40 MPa
MU Value	1000 (very vapor open)
TG Value	-40 °C
UV resistance	Completely
Adhesion concrete	1,6 MPa
Adhesion bitumen	0,6 MPa (cracks surface)

Properties liquid product

Colour	Grey <i>Other colours are available on project basis and on request.</i>
Density	1,11 kg/l mixed product
Volume solids	Approx. 96%
Flash point	>80 °C
Shelf life	At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost. Drums should always be placed on pallets to avoid direct contact with the floor.

Application information

Method	Trowel, squeegee, roller or brush
Usage	2,5 – 3,5 kg/m ² /layer
Mixing ratio	800 gram A : 200 gram B
Potlife**	25 minutes
Application temp.	+5 and +30°C
Walkable*	After approx. 4 hours
Chemical resistant*	After 7 x 24 hours
Wear resistant*	After 3 x 24 hours
Recoat time *	18 hours <i>Apply next layer within given time. Recoat times can decrease as the temperature rises.</i>
Dilution	Roca Thinner S. A maximum of 5% only to be added once base(A) and hardener(B) have been mixed.
Cleaning agent	Roca Cleaner R5518

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 and component B until it is a homogenous mixture. Pour a part of the mixture back in the harder can and mix to include all harder materials. Afterwards, pour this mixture back into the base can and mix again until it is a homogenous mixture.

Notes during application

The ambient and surface temperature shouldn't be lower than 5 °C. Condensation on the surface reduces the adhesion. 2-component products may only be applied when the relative humidity is less than 85%. The minimum surface temperature is +5 °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. The potlife is partly dependent on the product temperature.

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



Surface and circumstances

The concrete must be healthy, dry, grease-free and load-bearing and at least 28 days old. Clean contaminate surfaces using a suitable cleaning agent or method.

Clean contaminated and greasy surfaces (oil and grease), preferably with a steam cleaner, using a suitable cleaning agent. If this does not result in a clean, load-bearing surface, blasting should be performed.

Remove algae, moss and mold with anti-moss. Check surfaces for cement skin, sludge or loose sand-cement. If this does not result in a clean, load-bearing surface, remove by blasting, sanding or another suitable method.

Pre-treat power-floated surfaces by dust-free blasting. In some cases, sanding is sufficient.

Check surface for loose top layers (e.g. bomb ice) and if necessary remove and repair. Repairs and equalizations must be carried out professionally with the appropriate products, also with regard to the finishing layer.

With all surfaces, a suitable primer will be necessary. The type of primer depends on the surface. In some cases, it may be desirable to provide the surface with a screed layer afterwards.

The load-bearing capacity of the synthetic floor depends on the compressive strength of the cement-bound screed and can never be absorbed by a flooring system.

Any expansion joints in the surface may not be concealed, but must retain their function. In some cases it may be desirable to apply a dilation profile.

Already existing and treated work:

Roughen old 2-component layers by blasting or sanding and apply a suitable primer. Check old coating layers for possible detachment. If in doubt, always set up a test area and consult your supplier.

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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Liquid synthetic materials for a sustainable future