

# MonoSeal

## Pure Polyurea Waterproofing Membrane

**CE** independently CE certified  
based on EN 1504-2  
NB: 0958-23026 10

### Description

MonoSeal is a liquid waterproofing membrane based on **pure cold applied polyurea**. It cures to form a seamless, durable and weather resistant waterproofing solution. Can be, in the second layer, broadcasted with mineral grit or kiln dry sand to become a anti slip surface. It can also be combined with an anti slip top coating.

### Application

Water-proofing of flat and pitched roof structures, communal walkways, podium decks balconies and terrace roofs. Applicable to existing concrete, roofing felt, brickwork and asbestos cement decks.

### Article number and packaging

23026-05	0,5 kg set (repair)
23026-2	2,5 kg set (details)
23026-10	10 kg set
23026-20	20 kg set

### Properties

- Cold applied, ideal for applications where open fire is prohibited.
- Seamless waterproofing technology, no risk for leaking joints.
- Can be overlaid onto virtually all common balcony substrates.
- UV and chemically resistant.
- Vapour permeable.
- Can be broadcasted with mineral grit or combined with an anti slip coating.
- Low temperature flexibility.
- Excellent thermal stability.

Elongation	1530% (DIN 53504)
Tensile strength	4 MPa (DIN 53504)
Shore hardness	A65 ±5 (Din 53505, ASTM D2240)
Wear resistance Taber	0,3 gram (1000 rotations, 1000 gram weight, CS 18)
MU value	1000

### Liquid product properties

Color	± RAL 7024, others on request
Density	1,26 mixed product
Volume solids	> 98%
VOC quality	40 gram /l
Shelf life and storage conditions	Store in original, unopened and undamaged packaging in dry conditions at temperatures >0°C and < 25°C. Protect from frost. A shelf-life of 12 months is achieved when stored in accordance with the above recommendations at a temperature of 20°C.

### Application information

Method	Roller, brush, trowel, squeegee		
Coverage	1,5 – 2,5 kg /m <sup>2</sup> (deppends on substrate)		
Mixing ratio	610 gram A : 390 gram B		
Potlife	Approx. 25 min at 20°C		
Dilution	Preferably not. Maximum 5% only to be added once base and hardener have been mixed. Adding thinner will affect the final physical properties.		
Cleaning agent	Roca Cleaner R5518 (tools)		
Application temp.	Object	>5°C	<30°C
	Product	>5°C	<25°C
Curing time	20°C	1 hr	
Walkable	20°C	>2 – 4 hrs	
Recoat window	20°C	>12 hrs	< 48 hrs
Chemical load	20°C	>7 days	
Mechanical load	20°C	>3 days	

The times given are approximates only and are affected by fluctuating environmental conditions such as temperature and relative humidity. Values are given at 2 kg /m<sup>2</sup>.

### Comments during application

The ambient and surface temperature must be at least +5°C, whereby the temperature of the surface to be treated must be 3° above dew point. Condensation on the base reduces adhesion. Consult the dew point table.

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

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 tin 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 tin and mix it in the tin until all the hardener has been used.

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

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



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Page 1 of 3 - This version replaces all previous versions.

### Surface

All substrates must be dry, clean and free of pores. For most substrates a primer is necessary. Please consult the primer table.

### Bitumen felt

Caution is needed with new bitumen roofing. The adhesion to bitumen is limited to 0,6 N /mm<sup>2</sup> (surface crack). The adhesion on new felt could cause adhesion problems. The bitumen felt must be at least 6 months old and surface must be free of loose parts, grease and any other substances that can disturb the adhesion. Loose bitumen joints and parts must be secured.

### Metal parts

Metal must be clean and free of grease. After that it must be sanded and treated with MonoPrime P-RW or MonoPrime UNI.

### Mineral surfaces

The surface must be healthy, with minimum compression strength of 25 N/mm<sup>2</sup> and minimum bond strength of 1.5 N/mm<sup>2</sup>.

All concrete surfaces must be at least 28 days of age. Monolithic floors and formed surfaces must be abrasive blasted or other preparation means to clean and profile.

Remove any cement-skin and concrete residues by grinding and/or sanding. Smooth and dense sub-floors (e.g. concrete) should be roughened by (dust-free) blasting. Unclean surfaces should be treated with a flame-gun and thereafter sanded. Always vacuum the floor to remove dust using an industrial vacuum cleaner.

Moisture content of surface: < 4% (parts by weight).

Substrates need to be pore free. Use a primer to prepare the surface in a proper way.

Various types of surfaces are available, some of which have individual pre-treatment requirements. If in doubt, contact your Prokol technician for more information.

### System examples

#### Balconies, terraces, walkways (concrete)

- Surface preparation
- MonoPrime P-RW 0,15 – 0,30 kg /m<sup>2</sup>
- MonoSeal 2,00 – 2,20 kg /m<sup>2</sup>
- MonoSeal 0,50 – 1,00 kg /m<sup>2</sup>
  - Broadcast the wet layer with kiln dried sand
- ProFast Floor Coating 0,25 – 0,50 kg /m<sup>2</sup>

#### Flat roofing (bitumen)

- Surface preparation
- MonoSeal 1,00 – 1,50 kg /m<sup>2</sup>
- MonoSeal 1,00 – 1,50 kg /m<sup>2</sup>

#### Details, vertical parts, overlaps and joints (bitumen)

- Surface preparation
- MonoSeal Detail 1,50 – 2,00 kg /m<sup>2</sup>

#### Metal surfaces

- Surface preparation
- MonoPrime P-RW 0,10 – 0,15 kg /m<sup>2</sup>
- MonoSeal 1,50 – 2,00 kg /m<sup>2</sup>

### Important

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

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Due to its aromatic composition, MonoSeal will tend a bit into yellow after exposure to UV light. MonoSeal can be finished with a topcoating. If a top coating must be applied as a finishing layer, it must be suitable for the purpose and elasticity of the surface.



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Page 2 of 3 - This version replaces all previous versions.

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## 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.

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. A copy of these sheets will be provided on request and is also available from [www.prokol.nl](http://www.prokol.nl).

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



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Page 3 of 3 - This version replaces all previous versions.