

ATAL MONOSEAL TECHNICAL DATASHEET

Tafarnaubach Industrial Estate,
Unit 27,
Tafarnaubach,
Tredegar NP22 3AA

CONTACT US:

Phone Us: 01495 717202

Email: Enquiries@ataluk.com



atal^{uk.com}

Structural Waterproofing Systems

MonoSeal *polyurea* waterproofing membrane

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.

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 1350% (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

Adhesion to primer 3,0 N/mm2 @ Rocathaan Primer UNI 2,5 N /mm2 @ Rocapox EP Primer GV-M

Liquid product properties

Color ± RAL 7024, others on request

Density 1,26 mixed product

Volume solids > 99%

VOC quality 0 grams /liter

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 2 – 2,2 kg /m2

Mixing ratio 610 gram A : 390 gram B

Potlife Approx. 35 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.

Thickening agent Prokol VRT-P

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 >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 /m2.

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.

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/mm² (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 a suitable primer. Consult the primer table.

Mineral surfaces

The surface must be healthy, with minimum compression strength of 25 N/mm² and minimum bond strength of 1.5 N/mm².

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.

Systems

Balconies, terraces, walkways (concrete)

- Surface preparation
- ProFast Primer RW 0,15 – 0,30 kg /m²
- MonoSeal 2,00 – 2,20 kg /m²
- MonoSeal 0,50 – 1,00 kg /m²
- Broadcast the wet layer with kiln dried sand
- ProFast Floor Coating 0,25 – 0,50 kg /m²

Flat roofing (bitumen)

- Surface preparation
- MonoSeal 1,00 – 1,50 kg /m²
- MonoSeal 1,00 – 1,50 kg /m²

Details, vertical parts, overlaps and joints (bitumen)

- Surface preparation
- Rocathaan Primer UNI 0,10 – 0,15 kg /m²
- MonoSeal + Prokol VRT-P 1,50 – 2,00 kg /m²

Prokol VRT-P is a thickening agent for details, vertical parts, overlaps and joints. These parts must be treated twice for sufficient layer thickness.

Important

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

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

Due to its aromatic composition, MonoSeal will tend to turn 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.

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.

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.

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