

PRODUCT DATA SHEET

Monoprufe® RTU 801

UV RESISTANT cold applied modified polyurethane WATERPROOF MEMBRANE

DESCRIPTION

Monoprufe® RTU 801 is a highly versatile single component water based modified polyurethane waterproofing membrane with high elasticity and a high technical performance. Suitable for application onto almost any surface such as damp or dry concrete, stone, metal, asphalt or wood. Monoprufe® RTU 801 is easy to apply and has a long pot life making it ideal for use on large areas with complicated detail such as behind curtain walls and cladding systems.

USES

- Flat roof
- External wall
- Metal roof
- Deck
- Canopies

CHARACTERISTICS / ADVANTAGES

- Excellent Elasticity
- Excellent Waterproofing
- Solvent Free
- No discolouration, no yellowing
- UV stable
- Low VOC

PRODUCT INFORMATION

Composition	Polyurethane acrylic copolymer
Packaging	20 kg drum
Colour	Grey and White. Other colours are available on request.
Shelf life	12 months from the date of production
Storage conditions	Stored properly in undamaged and unopened original sealed packaging in the temperature range 5 °C to 35 °C. Protect from direct sunlight and frost.
Density	1.2 ±0.1 kg/litre
Solid content by weight	> 60 % by weight

TECHNICAL INFORMATION

Tensile strength	> 2.5 MPa	(ASTM D412)
Tensile strain at break	> 300 %	(ASTM D412)

APPLICATION INFORMATION

Consumption	A typical 2 coat application will require about 2 kg materials for floor application and 1.5 kg for wall application per m ² area. The consumption rate will be varied with surface porosity and texture.
Ambient air temperature	> 5 °C

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

21 g/litre when tested in accordance with USEPA Method 24.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Monoprufe® RTU 801 must be applied onto sound concrete, screed or similarly supportive ceramic substrate. The substrate should be dry, clean, free of oil, grease and other removable contaminants. Open textured surfaces like mortar or concrete should be primed with diluted Monoprufe® RTU 801 (1 part of Monoprufe® RTU 801 diluted with 3 parts of water) or Sikalastic®-500 Acrylic Primer HK. Brush apply the primer at application of 0.3 kg/m² approximately. New concrete should be left for 28 days before applying Monoprufe® RTU 801. For best results Monoprufe® RTU 801 should be applied in 2–3 coats at 1 kg/m²/coat (for roofing application) and 0.75 kg/m²/coat (for wall application). A fibre reinforced detailing coat should be used over open joints, corners and interfaces and where differential movement may induce additional stress in the membrane. Substrate should be completely dry. In case of raining, let the concrete substrate to dry for 3 days before application.

MIXING

Monoprufe® RTU 801 is supplied pre-blended and ready to use however after storage you may find some slight separation of components inside the bucket. This is normal and the product can be restored by a simple remixing using a slow speed mixer or light hand mixing with a spatula.

APPLICATION METHOD / TOOLS

Detailing Coat

For areas where excessive movement may be expected Monoprufe® RTU 801 should be reinforced with glass fabric to those areas.

In this case cut the fabric to the size and shape necessary in advance and apply onto the first coat as soon as it has been applied. i.e. while the first coat is still wet. A simple patting motion with the brush should be enough to bring the resin through the fabric. Allow this first coat to dry for at least 4 hours or until it can receive foot traffic without sustaining damage. The glass fabric can be cut for application across simple joints with an overlap of at least 50 mm each side or left at 250 mm wide for an overlap to 125 mm each side for the more complex areas and corners.

First Coat

Brush or squeegee & roll the first coat throughout the entire area to be treated. If the surface has been primed then the primer must be dry before commencing the application. Work the material into the surface concentrating on the rough areas and aiming to apply approx. 1 kg/m² for floor application and 0.75 kg/m² for wall. Allow the first coat to dry for 8 hours before applying the second and final coat.

Second and Final Coat

After drying of the first coat apply a second coat of Monoprufe® RTU 801 in direction at right angles to the first coat by spray equipment, brush, squeegee or roller at coverage rate of 1 kg/m² for floor application and 0.75 kg/m² for wall. If necessary, apply the final coat in the same method as the second coat once the second coat is dried for 8 hours.

Curing

Curing time will depend on the ambient conditions but the surface should be left undisturbed at least until the next day and preferably 2 to 3 days. This will be especially important at temperatures below 20 °C. Lots of ventilation is also important, for work carried out undercover or indoors fans will help to shorten the curing time.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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