

PRODUCT DATA SHEET

Monoprufe® RTU 401

UV Resistant Elastomeric Waterproof Membrane

DESCRIPTION

Monoprufe® RTU 401 offers a cold applied, seamless, UV stable and foot trafficable membrane. It is a surface applied roof and wall finish with excellent waterproofing, elasticity, bond and long term durability characteristics. Monoprufe® RTU 401 is decorative and provides an architectural finish. Monoprufe® RTU 401 can be applied onto a broad range of substrates. Good bond performance can be achieved onto sound cementitious screeds, renders and concrete.

USES

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

CHARACTERISTICS / ADVANTAGES

- Water based – safe to use and environmental friendly
- Can withstand foot traffic for inspection and maintenance
- Decorative and practical
- No discolouration, no yellowing
- UV stable
- Low VOC

PRODUCT INFORMATION

Composition	Polyurethane acrylic copolymer
Packaging	20 kg drum
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	> 60 % by weight

TECHNICAL INFORMATION

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

APPLICATION INFORMATION

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 401 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 Sikalastic®-500 Acrylic Primer HK to ensure a good bond. Brush apply the primer at application of 0.3 kg/m² approximately. New concrete should be left for 28 days before applying Monoprufe® RTU 401. Substrate should be completely dry. In case of raining, let the concrete substrate dry for 3 days before applications.

For best results Monoprufe® RTU 401 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.

MIXING

Monoprufe® RTU 401 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

Detailing Coat

For areas where excessive movement may be expected Monoprufe® RTU 401 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 401 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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