



## Monoprufe RTU 301

Seamless UV Stable Elastomeric Waterproof Membrane

### Description

Monoprufe RTU 301 offers a cold applied, seamless, UV stable, moderately trafficable membrane. A surface applied roof finish with excellent waterproofing, elasticity, bond and long term durability characteristics.

Primarily intended for metal roofs and other roofing areas where maintenance access is minimal. Monoprufe RTU 301 is decorative, provides an architectural finish and is available in a range of standard roofing colours with colour matching on request.

Monoprufe RTU 301 can be applied onto a broad range of substrates. Good bond performance can be achieved onto powder coated, epoxy painted, galvanised and similar metal roofs; both glazed and natural ceramics and sound cementitious screeds, renders and concretes; plywood and sound bitumen can also be treated.

### Benefits

- Single pack – easy to mix and install
- Heat reflective & insulating properties
- Decorative and practical
- No discolouration, no yellowing
- UV stable
- Low VOC



### Uses

- Flat roofs
- Maintenance areas
- Balconies
- Canopies

### Key Performance Indicators

- Waterproof (ISAT 0.0 ml/m<sup>2</sup>/s)
- Vapour permeable (1.2 g/m<sup>2</sup>/day)
- Elastomeric (700%)
- Bonding performance > 0.8 MPa on most substrates

## Specification Clause

The Exposed Roof Surface Finish shall be Monoprufe RTU 301 manufactured by Ronacrete (Far East) Ltd, tel (852) 2865 5872. All materials shall be applied strictly in accordance with manufacturer's instructions.

### Technical Performance

Elongation at Break	700%
Ultimate Tensile Strength	> 0.8 MPa (> 2.0 MPa if reinforced with Monoprufe Fabric)
Bond Strength	> 0.8 MPa
ISAT	0.0ml/m <sup>2</sup> /s

### Packaging

Monoprufe RTU 301 is supplied in 16kg packs. Alternative packing sizes may be supplied on request. Monoprufe Fabric is supplied separately in rolls approx. 30 m long x 250 mm wide.

## Application (\*Please Refer to the Method Statement and MSDS)

### Preparation

Monoprufe RTU 301 must be applied onto clean cool metal or sound concrete, screed or similarly supportive ceramic substrate. The substrate should be clean, free of oil, grease and other removable contaminants. Open textured surfaces like mortar or concrete should be slightly damp. Some substrates, especially poor or textured ones may require a primer such as Ronabond Surface Sealer to ensure a good bond. If in doubt Ronacrete strongly advise you to conduct trials with and without the primer. New concrete should be left for 28 days before applying Monoprufe RTU 301.

After application Monoprufe RTU 301 is typically about 1mm thick and as such will show the contours and variations in the substrate. Make sure to make good any such variations before application.

For best results Monoprufe RTU 301 should be applied in at least 2 coats. An additional 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 301 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.

### Detailing Coat

For areas where excessive movement may be expected Ronacrete insists on using Monoprufe Fabric with Monoprufe RTU 301 to reinforce 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.

Supplied in strips of 32m long by 0.25m wide the fabric can be cut for application across simple joints with an overlap of at least 50mm each side or left at 250mm wide for an overlap of 125mm 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. 1.5 kg to 2 kg per m<sup>2</sup> of mixed product. This will depend on the condition of the substrate but should equate to a little less than 1mm in thickness.

### Final Coat

After drying of the first coat apply a second coat of Monoprufe RTU 301 in the same way but this time take additional care of the application thickness. Ensure an even coating of approximately 1mm thickness and taking care with the application technique especially in areas which will remain readily visible as the drying finish and texture will be effectively permanent.

### 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.

### Coverage

A typical 2 coat application will require about 3 to 4 kg of wet mixed material.

### Tools and Equipment

Tools and equipment should be washed in clean water after use. Painted surfaces, metal and glass should be protected during application.

### Shelf Life and Storage

Monoprufe RTU 301 should be stored at temperatures between 10°C and 30°C. Shelf life is 12 months.

### Health and Safety

Monoprufe RTU 301 is low VOC and non-hazardous but avoid splashing onto skin and in eyes. Wash any splashes off with water as soon as possible. Rubber gloves and eye shields may be worn.

In case of skin contact, wash immediately with water.

In case of eye contact, flush with copious quantities of water and seek medical advice if irritation persists.

In case of ingestion, do not induce vomiting. Drink plenty of water and seek medical advice.

### Technical Service and Support

Ronacrete provide free technical advice and support during design and installation of all systems for flooring, concrete repair, bonding, bedding and waterproofing. If you need any further information including method statement or additional technical data sheet, contact the Ronacrete Technical Department on (852) 2866 4365 or visit our web site [www.ronacrete.com.hk](http://www.ronacrete.com.hk).

### Guarantee

Ronacrete products are guaranteed fit for purpose and of merchantable quality.

Ref: RFE-DS295 Issue 1 28.09.2016

### SIKA HONGKONG LTD

Rm. 1507-12, 15/F, Block A,  
New Trade Plaza,  
6 On Ping Street,  
Shatin, N.T., Hong Kong.

### Contact

Tel : +852 2686 8108  
Fax : +852 2645 3671  
E-mail : [marketing@hk.sika.com](mailto:marketing@hk.sika.com)  
[www.sika.com.hk](http://www.sika.com.hk)