

## ALSAN RS Roof Waterproofing System

### Areas of application

The ALSAN RS Roof Waterproofing System is used for waterproofing and refurbishing flat roofs on industrial buildings, high-rise buildings or garages etc.

### Application conditions

The product can be applied at substrate and ambient temperatures between + 3 ° min. and + 35 ° max.

### Substrate pre-treatment

The substrate must be sound, dry and free from loose or adhesion-reducing particles. Before applying the product directly onto non-absorbent substrates (e.g. plastics sections, metals etc.), we recommend rubbing down the surfaces with abrasive paper and then cleaning them with ALSAN RS Cleaning Agent to provide a better key (remember to allow time for the cleaning agent to evaporate). Substrate adhesion should always be tested on site.

### Primer

The following must be coated with a primer:

- Absorbent and synthetic-resin modified substrates (e.g. concrete, screed or wood) with ALSAN RS 276 Primer
- Highly absorbent substrates with ALSAN EPR followed by a sand topping (0.2 – 0.6 mm) to cover the whole area
- Asphalt substrates with ALSAN RS 222 Primer
- Bitumenised sheets, bare or sand-topped, do not require primer.

(See also table of substrates.)

### Application instructions

#### Primer

- Using a lambswool roller, apply an even film of ALSAN RS 276 Primer to the prepared surface.  
Interval: approx. 30 minutes
- fully Using a lambswool roller, apply an even film of ALSAN EPR to the prepared surface. Avoid the formation of puddles. While the primer is still wet, top with a generous amount of quartz sand  $\geq 0.2 - 0.6$  mm and vacuum off the excess once the primer has cured.  
Interval: approx. 3 hours
- Using a lambswool roller, apply an even film of ALSAN RS 222 Primer to the prepared surface.  
Interval: approx. 30 minutes

#### Levelling

ALSAN RS Surfacer, ALSAN RS 233 self-levelling mortar or ALSAN RS 242 Mortar can be used to level out any rough areas and differences in height as well as broken and removed tiles or negative gradients. Please refer to the application guidelines for ALSAN RS Levelling for further information.

#### Waterproofing

Once the primer had cured, apply a generous amount (approx.  $2.00 \text{ kg/m}^2$ ) of ALSAN RS 230 Resin (TT). Then immediately embed the ALSAN RS Fleece, using a lambswool roller to remove any air inclusions and apply another layer of ALSAN RS 230 Resin (TT); (approx.  $1.50 \text{ kg/m}^2$ ) from on top to saturate the fleece.

Interval: approx. 30 minutes

#### Top coat (optional)

Another coat of ALSAN RS 230 Resin (TT); (approx.  $1.30 \text{ kg/m}^2$ ) is applied as a top coat in areas which are subject to increased chemical stress or on walkways (e.g. for maintenance work).

Interval: approx. 30 minutes

## APPLICATION GUIDELINES

### Sealing layer (optional)

To improve the dirt-repellent qualities or to enhance the appearance of the coating, ALSAN RS 288 Finish (approx. 0.60 kg/m<sup>2</sup>) may be applied with a lambswool roller to the waterproofing layer or top coat.

### Subsequent treatment

The sealing coat, which is suitable for foot traffic, can be rubbed down with a cloth or strip of fleece dipped in ALSAN RS 920 Care Finish to increase the anti-slip properties or to decrease surface tension.

### **Joints**

If existing expansion joints have to be coated, then an additional loop of waterproofing layer is applied between the primer and the coating, using ALSAN RS 230 Resin (TT) and ALSAN RS Fleece strips as inlay. Different widths of strips are used for this in keeping with the expected movement in the joints.

For more information please refer to the ALSAN RS Joint Waterproofing System and the relevant detail drawings.

### **Consumption**

#### Primer

ALSAN RS 276 Primer	approx. 0.40 kg/m <sup>2</sup>
ALSAN EPR	approx. 0.30 kg/m <sup>2</sup>
Quartz sand 0.2 – 0.6 mm	approx. 2.00 kg/m <sup>2</sup>
ALSAN RS 222 Primer	approx. 0.40 kg/m <sup>2</sup>

#### Waterproofing

ALSAN RS 230 Resin (TT)	approx. 3.50 kg/m <sup>2</sup>
ALSAN RS Fleece	approx. 1.05 m <sup>2</sup> /m <sup>2</sup>

#### Wear layer

ALSAN RS 230 Resin (TT)	approx. 1.30 kg/m <sup>2</sup>
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#### Sealing layer

ALSAN RS 288 Finish	approx. 0.60 kg/m
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### **Cleaning the tools**

The tools must be cleaned thoroughly within the pot life of the product when work is completed or interrupted. The curing process is not halted if the tools are merely immersed in cleaning agent. Tools which have been recently cleaned cannot be used again until the cleaning agent has evaporated fully.

### **Information on risks and safety**

See product safety data sheets.

The advice we provide on the application of our products is based on extensive development work as well as many years of experience and is given to the best of our knowledge. However, the wide variety of requirements for a building under the most diverse conditions mean that it is necessary for the contractor to test the product for its suitability in any given case. We reserve the right to make changes in keeping with technical developments or improvements to our products.

## APPLICATION GUIDELINES

### Reaction time (approx. values at 20°C)

	potlife	rainproof	accessible	fully cured
Primer ALSAN RS 276	10 min.	30 min.	30 min.	2 h.
ALSAN EPR	15 min.	2 h.	2 h.	3 jours
Primer ALSAN RS 222	10 min.	30 min.	45 min.	3 h.
Resin (TT)				
ALSAN RS 230	15 min.	30 min.	1 h.	3 h.
Finition ALSAN RS 288	15 min.	30 min.	1 h.	3 h.

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