

# ALSAN RS Waterproofing System

## Areas of application

The **ALSAN RS Waterproofing System** with its two courses of a **waterproofing** and a **wearing layer** can be used on all surfaces where absolute water tightness is required and where there is a danger of cracking, where there are existing joints or where the area is subject to mechanical stress.

## Application conditions

The product can be applied at substrate and ambient temperatures between + 3 ° min. and + 35 ° max.  
In enclosed spaces the air must be replaced at least 7 times by forced ventilation.

## 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**

(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

- 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 fully 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 has cured, apply a generous amount (approx. 2.00 kg/m<sup>2</sup>) of **ALSAN RS 230 Resin** (TT, thix) . Then immediately embed the **ALSAN RS Fleece**, using a lambswool roller to remove any air inclusions and, if necessary, apply another layer of **ALSAN RS 230 Resin** (TT), (approx. 0.50 kg/m<sup>2</sup>) to saturate the fleece from above, so that no more than the tips of the fleece are visible.

### - Top layer

On flat roofs an additional layer of **ALSAN RS 230 Resin** (TT, thix) may be applied to level the surface (approx. 1.5 kg/m<sup>2</sup>).

### - Wear layer with/without topping

Once the waterproofing layer has cured, use a stainless steel trowel or float to distribute **ALSAN RS 263 Self-levelling mortar** evenly (approx. 4.00 kg/m<sup>2</sup>). If required, top immediately with an excess amount of quartz sand or similar material (grain size  $\geq 0.2 - 0.6$  mm).

ATTENTION: Do not apply topping to **ALSAN RS Textured coating** (see below).

Interval: approx. 1 hour

- **Sealer**
- On coatings with topping

Once the excess topping has been vacuumed off, apply a sealing coat of **ALSAN RS 288 Finish** (approx. 0.70 kg/m<sup>2</sup>) to fix the topping, using a short-pile lambswool roller to distribute the product evenly and to roll it into the surface. For an enhanced appearance you can also apply the finishing coat with a rubber squeegee and smooth it over with a short-pile lambswool roller (consumption: approx. 0.80 kg/m<sup>2</sup>).

- On coatings without topping

Once the coating has hardened fully, use a lambswool roller to apply an even layer of **ALSAN RS 288 Finish** (approx. 0.60 kg/m<sup>2</sup>) and finish with a subsequent topping of **ALSAN RS Chips** if required.

- **Wear layer** with textured coating

Use a stainless steel trowel to apply the highly abrasion-resistant **ALSAN RS Textured Coating** to the fully cured layer of **ALSAN RS 233 Self-levelling mortar**.

- **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)** und **ALSAN RS Fleece** strips as inlay. Strips of different widths are used in keeping with the expected amount of movement. The subsequent coating of self-levelling mortar must not be applied to the expansion area if the joint movements are greater than 0.5 mm. 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, thix)	approx. 2.50 kg/m <sup>2</sup>
ALSAN RS Fleece	approx. 1.05 m <sup>2</sup> /m <sup>2</sup>
Top coat	approx. 1.50 kg/m <sup>2</sup>

- **Wear layer**

ALSAN RS 233	approx. 4.00 kg/m <sup>2</sup>
Quartz sand 0.7 – 1.2 mm	approx. 4.00 kg/m <sup>2</sup>

- **Sealer**

- With topping	
ALSAN RS 288 Finish	approx. 0.70 kg/m <sup>2</sup>

- Without topping

ALSAN RS 288 Finish	approx. 0.60 kg/m <sup>2</sup>
ALSAN RS Chips	approx. 0.15 kg/m <sup>2</sup>

- **Wearing layer**

ALSAN RS Textured Coating	approx. 3.50 kg/m <sup>2</sup>
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## Reaction times (approx. values at 20 °C)

	Pot life	Rain-proof	Can be walked	Fully cured	
	after	after	on / coated	after	
			after		
ALSAN RS 276 Primer	10 mins	30 mins	30 mins	2 Std.	
ALSAN EPR	15 mins.	2 hours	2 hours	3 Tage	
ALSAN RS 222 Primer	10 mins.	30 mins	30 mins	3 hours	
ALSAN RS 230 Resin (TT)		15 mins.	30 mins	1 hour	3 hours
ALSAN RS 233	15 mins	30 mins	1 hour	3 hours	
ALSAN RS 288 Finish	15 mins	30 mins	1 hour	3 hours	
ALSAN RS Textured Coating	15 mins		30 mins	1 hour	3 hours

## 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.

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