# ALSAN RS Joint Waterproofing System

**Areas of application**
The ALSAN RS Joint Waterproofing System is used as a high-quality, flexible as well as crack-bridging and joint-spanning waterproofing for working and expansion joints.

**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:

a) Absorbent and synthetic-resin modified substrates (e.g. concrete, screed or wood) with ALSAN RS 276 Primer

b) Highly absorbent substrates with ALSAN EPR , followed by a sand topping (0.2 – 0.6 mm) to cover the whole area

c) Asphalt substrates with ALSAN RS 222 Primer

(See also table of substrates.)

**Application instructions**

Primer

a) Using a lambswool roller, apply an even film of ALSAN RS 276 Primer to the prepared surface. Avoid the formation of puddles.
Interval: approx. 30 minutes

b) 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, sprinkle with a generous amount of quartz sand (0.2 – 0.6 mm) and vacuum off the excess once the primer has fully cured.
Interval: approx. 3 hours

c) Using a lambswool roller, apply an even film of ALSAN RS 222 Primer to the prepared surface.
Interval: approx. 45 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

a) Working joints
Once the primer has cured fully, seal open joints so they are flush (see Levelling). Apply a first layer of ALSAN RS 230 Resin (approx. 1.50 kg/m2) and, while this is still wet, embed a ALSAN RS Fleece strip (width = 15 cm) in the product. Then apply another layer of ALSAN RS 230 Resin until the fleece is fully saturated.

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b) Expansion joints
Once the primer has fully cured, insert a loop of ALSAN RS Fleece strip (width = 26 cm) saturated with ALSAN RS 230 Resin in the joint and place a closed-cell round cord (diameter = joint width + 25 %) in the loop. Then fill the joint so it is flush with the surface (see Levelling). When the mortar has set, insert a joint strip (width = 50 or 100 mm) in the centre and then apply a layer of ALSAN RS 230 Resin, followed by a ALSAN RS Fleece strip (width = 26 cm). Repeat this process with a ALSAN RS Fleece strip (width = 35 cm) and apply another layer of ALSAN RS 230 Resin on top until the fleece is saturated.

For details and junctions with main area systems please refer to the drawings for "ALSAN RS Joint Waterproofing".

**Consumption**

Primer

| | |
|---|---|
| ALSAN RS 276 Primer | approx. 0.40 kg/m2 |
| ALSAN EPR | approx. 0.30 kg/m2 |
| Quartz sand 0.2 –0 .6 mm | approx. 2.00 kg/m2 |
| ALSAN RS 222 Primer | approx. 0.40 kg/m2 |

Wearing layer

| | |
|---|---|
| ALSAN RS 230 Resin | approx. 3.50 kg/m2 |
| Fleece sheet / strip | approx. 1.00 metre run/m |

**Cleaning the tools**

The tools must be cleaned thoroughly with ALSAN RS Cleaning Agent 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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**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 days |
| Primer ALSAN RS 222 | 15 min. | 30 min. | 45 min. | 3 h. |
| ALSAN RS 230 | 15 min. | 30 min. | 1 h. | 3 h. |