

ALSAN RS Waterproofing System under other surfaces (tiles or similar)

Areas of application

The **ALSAN RS Waterproofing System** under other surfaces is used as a high-quality waterproofing system on areas where absolute leak-proofing is vital, on areas subject to cracking or existing joints e.g. under lath flooring, loose-laid or bonded tiles etc.

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

1. Primer

- a) Using a lambswool roller, apply an even film of ALSAN RS 276 Primer to the prepared surface.
Interval: approx. 30 minutes
- b) 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
- c) Using a lambswool roller, apply an even film of ALSAN RS 222 Primer to the prepared surface.
Interval: approx. 30 minutes

2. Levelling

ALSAN RS Surfer, 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.

3. Waterproofing

Once the primer has cured, apply a generous amount (approx. 2.00 kg/m²) 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/m²) to saturate the fleece from above, so that no more than the tips of the fleece are visible.

APPLICATION GUIDELINES

4. Top coat with topping for the application of slabs, tiles etc.
Another even layer of **ALSAN RS 233 Self-levelling mortar** (approx. 4.00 kg/m²) is applied to the fully cured waterproofing layer and immediately topped with excess amounts of quartz sand (grain size $\geq 0.2 - 0.6$ mm). The excess is either brushed or preferably vacuumed off after curing.
Interval: approx. 1 hour

Note:
Slabs, tiles etc. can be installed on **ALSAN RS Waterproofing** with excess topping using a 2-pack, solvent-free epoxy resin adhesive or other high-quality flexible adhesive that is suitable for outdoor application.

5. Top coat without topping for loose-laid slabs, tiles etc.
Another even layer of **ALSAN RS 230 Resin(TT)**; (approx. 1.00 kg/m²) is applied to the fully cured waterproofing layer to create a smooth surface for laying elevated slabs and tiles etc.
Interval: approx. 1 hour

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** 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.

Note:

All joints in the substrates, expansion and working joints must be incorporated in the slabbed or tiled surface and finished using a permanently flexible material. Communication between the applicator of the waterproofing layer and the layer of the tiles is important here.

Consumption

- Primer

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

- Waterproofing

ALSAN RS 230 Resin (TT)	approx. 2.50 kg/m ²
ALSAN RS Fleece	approx. 1.05 m ² /m ²

- Top coat with topping

ALSAN RS 230 Resin (TT)	approx. 1.00 kg/m ²
Quartz sand $\geq 0.2 - 0.6$ mm	approx. 4.00 kg/m ²

- Top coat without topping

ALSAN RS 230 Resin (TT)	approx. 1.00 kg/m ²
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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.

APPLICATION GUIDELINES

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.