

ALSAN RS Thick-Layer System

Areas of application

The ALSAN RS Thick-Layer System is used for high-quality, crack-bridging coatings on areas where high levels of mechanical and weather resistance are required, e.g.: on parking decks, walkways or in public areas.

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.
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.

- Wear layer with/without topping

Once the primer has cured, use a stainless steel trowel or float to distribute ALSAN RS 233 Self-Levelling Mortar evenly (approx. 4.00 kg/m²). If required, top immediately with an excess amount of quartz sand or similar material (grain size ≥ 0.2 – 0.6 mm).
Interval: approx. 1 hour

APPLICATION GUIDELINES

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/m²) to fix the topping, using a 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/m²).

On coatings without topping

Once the coating has cured, a lambswool roller is used to apply an even coat of ALSAN RS 288 Finish, with a subsequent topping of ALSAN RS Chips if required.

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 working joints or expansion joints are to be waterproofed, then a sealing strip must be applied using ALSAN RS 230 Resin with a ALSAN RS Fleece Strip embedded in it. 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. See also the relevant detail drawings.

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 |

- Wearing layer

| | |
|------------------------------------|--------------------------------|
| ALSAN RS 233 Self-Levelling Mortar | approx. 4.00 kg/m ² |
| Quartz sand \geq 0.2 – 0.6 mm | approx. 4.00 kg/m ² |

- Sealer

| | |
|---------------------|--------------------------------|
| - With topping | |
| ALSAN RS 288 Finish | approx. 0.70 kg/m ² |
| - Without topping | |
| ALSAN RS 288 Finish | approx. 0.60 kg/m ² |

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. | 30 min. | 3 h. |
| Resin (TT) | | | | |
| ALSAN RS 230 | 15 min. | 30 min. | 1 h. | 3 h. |
| ALSAN RS 233 | 15 min. | 30 min. | 1 h. | 3 h. |
| Finition ALSAN RS 288 | 15 min. | 30 min. | 1 h. | 3 h. |
| ALSAN RS textured coating | 15 min. | 30 min. | 1 h. | 3 h. |

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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