



Resuthane SL45

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DESCRIPTION

Resuthane SL45 is a water based polyurethane self smoothing resin floor screed designed to provide excellent heavy duty usage with resistance to thermal shock, abrasion and chemical attack in aggressive industrial environments.

Installed at 4 - 5 mm, the surface is smooth, seamless and dries to a matt finish, providing slip resistant properties.

ADVANTAGES

- High chemical resistance
- Resistance to hot water
- Self sealing
- Matt finish
- Extremely hard wearing

RECOMMENDED USES

- Food manufacture and processing
- Brewing and beverage
- Automotive and Aviation
- Commercial Kitchens and Dairies
- Pharmaceutical and chemical plant processing
- Abattoirs
- Medical and Healthcare

PRODUCT INFORMATION

System Thickness (Recommended)	4 mm to 5 mm
Solids Content	100% solids by weight
Pack Sizes	19 kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate
Shelf Life	36 months (Base), 12 months (Hardener), 6 months (Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, not below 15°C. Aggregate should be stored in a dry area to prevent contamination from moisture, as this would have a detrimental effect on the product.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	19 kg will cover 1.9 sq m @ 5 mm <small>* Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.</small>
Pot Life	15 minutes
Recoating Intervals	N/A
Light Traffic	12 - 16 hours
Full Traffic	48 hours
Full Chemical Cure	5 - 7 days



Specification

Product : Resuthane SL45

Finish : Smooth, Matt

Recommended thickness range : 4 mm to 5 mm

Colour : Limited colour range, consult Sherwin-Williams

Products required for this system

Primer : Resuprime ST / Resuprime MVT

System : Resuthane SL45 at required thickness

Surface Seal : Not required but Resupen WB will assist cleaning regime.

Preparation

New Concrete Floors: New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Existing Concrete Floors: Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fat, oil and/or grease must be removed by mechanical means and detergent washing ensuring all residue of the detergent is washed and removed by rinsing with clean water.

Existing Floors (previously coated)

All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed, then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with existing floor surface.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 5mm deep by 10mm wide. These should be inset approximately 150mm from, and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge, i.e. both sides of a day work joint. The groove must have a neat square edge and the **Resuthane SL45** laid to the full depth forming a perimeter anchorage.

Priming

Open and porous substrates will require priming with **Resuprime ST** on dry substrates only with less than 75% ERH reading. Where the Equilibrium Relative Humidity of a substrate exceeds 75% ERH **Resuprime MVT** should be specified and selected on the basis of hygrometer readings in accordance with BS 8203.

The number of coats to be applied is chosen in accordance with the following table.

ERH% Required Coating Thickness

75-85 1 coat of Resuprime MVT at 200 microns per coat

85-92 2 coats of Resuprime MVT at 200 microns per coat

92-97 3 coats of Resuprime MVT at 200 microns per coat

For further information please refer to individual product data sheets.

Application

Resuthane SL45 may be applied to substrates with a surface temperature in the range of 5-20°C and a relative humidity < 90% RH, with a minimum air temperature of 8°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm.

When the primed surface is tack free **Resuthane SL45** should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and add to application problems).

NB: Cure times are extended at low temperatures.

Mix the coloured base component to an even consistency, ensuring the re-dispersion of any settled pigment, Thoroughly scrape the contents of the base and hardener components into the same container and mix thoroughly for one minute. Pour the combined base and hardener into a rotary drum mixer and add the aggregate component steadily, until a homogeneous mix of the three components is achieved.

When thoroughly mixed the compound should be poured evenly over the appropriate area to be covered (monitoring rate of coverage to ensure correct depth of screed). Low floor temperatures and reduced thickness may reduce the flow properties of these products. Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. Roll immediately with a spiked roller to achieve an even smooth surface and remove entrapped air.

NB: Spiked rolling should be undertaken immediately after trowelling. Do not re-roll later.

Resuthane units should be applied consistently with mixes from the same batch used consecutively where adjacent areas are being laid with a wet edge maintained.

Category Guide

FeRFA Category : 7

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance Dry > 50, low slip potential

Method BS7976 pt1-3 2002

Wet (Please consult Sherwin-Williams)

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult Sherwin-Williams

Abrasion Resistance Average depth of wear (mm)
0.04

Method BS 8204/ASTM D4060

Temperature Resistance Tolerant of sustained temperatures of up to 90°C @ 5 mm

Chemical Resistance Excellent chemical Resistance
Consult Sherwin-Williams on specific materials

Compressive Strength 46 N/mm²

Flexural Strength 8.8 N/mm²

Tensile Strength 3.2 N/mm²

VOC 13 g/l calculated on weight per full mixed unit



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BSEN 13813 SR B 3.2- AR 0.5 - IR>4

Resin coating/screed for use inside buildings as per data sheet

Wear resistance: AR 0.5

Bond strength: B 3.2

Impact resistance: IR > 4

Maintenance and Cleaning

Sherwin-Williams recommend that **Resuthane SL45** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover, W500 Degreaser & R.S. Oil Remover**. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to the Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

Resuthane SL45 is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by Sherwin-Williams or its agents is based on the information supplied by the purchaser. Sherwin-Williams cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

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