



REF : RTSL 2016 05

# Resuthane™ SL

## DESCRIPTION

Resuthane™ SL 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 3 - 5mm a smooth and seamless matt surface is provided with good anti-slip properties.

## ADVANTAGES

- High chemical resistance
- Resistant to hot water
- Self sealing
- Matt finish
- Food safe & non taint (Campden BRI approved)
- Extremely hard wearing

## RECOMMENDED USES

- Food manufacture & processing
- Brewing & beverage
- Conference centres
- Laboratories
- Pharmaceutical & chemical plant processing
- Automotive & aviation production
- Heavy duty plant and traffic areas

## PRODUCT INFORMATION

| System Thickness (dry) | Solids content by weight | Pack sizes                                   | Pack make up                              | Shelf life   | Storage  |
|------------------------|--------------------------|--|---|--|--|
| 3mm to 5mm             | 100 %                    | SL23<br>16 kg. units<br>SL45<br>19 kg. units | 1 X Base<br>1 X Hardener<br>1 X Aggregate | 12 Months (Base & Hardener)<br>3 Months (Aggregates) | Keep out of direct sunlight.<br>Store in a dry place, not below 15°C |

## DRYING TIMES & COVERAGE RATES at 20°C

| Coverage rate  | Pot life                 | Recoat time | Light traffic | Full traffic | Full chemical cure |
|--|--------------------------|-------------|---------------|--------------|--------------------|
| SL23<br>16 kg. will cover 2.8 sq m @ 3mm<br>SL45<br>19 kg. will cover 1.9 sq m @ 5mm | 15 minutes (From Mixing) | N/A         | 12 - 16 Hours | 48 Hours     | 5 - 7 Days         |



[www.resinsurfaces.co.uk](http://www.resinsurfaces.co.uk)

## Specification

Product : Resuthane™ SL

Finish : Smooth, Matt

Thickness : 3mm to 5mm

Colour : See RSL Resuthane™ Colour Chart

## Products required for this system

Primer : Resuprime / R.S. Dampshield

System : Resuthane™ SL at required thickness

Surface Seal : Not required

NB: All polyurethane systems based on MDI will yellow with time this is a surface discolouration under the effect of UV light and does not in any way affect the durability of the floor finish. Darker colours will not show this effect as much as light colours.

## Preparation

To achieve the best performance from **Resuthane™ SL** the correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25N/mm<sup>2</sup>. All surfaces must be prepared by vacuum blasting or mechanical abrasion.

**Resuthane™ SL** 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.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 2mm deep by 3mm wide for **SL23** and 4mm deep by 3mm wide for **SL45**. 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 daywork joint.

## Priming

Surfaces should be primed with **Resuprime** at an average rate of 4 sq.m. per kg. **R.S. Dampshield** should be applied if the relative humidity of the concrete is greater than 75% RH at 4 sq.m. per kg, allow to cure for 8-12 hours @ 20°C

## Application

When the primed surface is tack free **Resuthane™ SL** should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and 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. Mix for a maximum 2-3 minutes.

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™ SL** units should be applied consistently with mixes from the same batch used consecutively where adjacent areas are being laid.

## Category Guide

FeRFA Category : 5/7

## 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 RSL

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 RSL.

Abrasion Resistance                      Average Depth of Wear (mm)  
Method BS8204 /ASTM D4060        0.04

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

Chemical Resistance                      Excellent Chemical Resistance  
Consult RSL on specific materials

Compressive Strength                      45N/mm<sup>2</sup>


Flexural Strength                          7N/mm<sup>2</sup>

Tensile Strength                          2.9N/mm<sup>2</sup>

Reaction to fire classification                B<sub>FL</sub> - S<sub>1</sub>  
EN 13501-1:2007+A1: 2009.

VOC    13 g/l  
Calculation based on a full mixed unit

Life Expectancy                              7 years plus  
Subjected to Industrial Traffic  
RSL terms and conditions will apply

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|---|--|
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| <b>13</b>   |  |
| <b>BSEN 13813 SR B 3.1 - AR 0.5 - IR&gt;4</b><br>Resin coating/screed for use inside buildings as per RSL data sheet<br>Wear resistance:                      AR 0.5<br>Bond strength:                          B 3.1<br>Impact resistance:                      IR > 4 |  |

## Maintenance and Cleaning

Please refer to the RSL Guide to Cleaning of Resin Floors

## Health and Safety

**Resuthane™ SL** 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 Resin Surfaces Limited or its agents is based on the information supplied by the purchaser. Resin Surfaces Limited 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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