RSL RESIN SURFACES LIMITED

A SHERWIN-WILLIAMS Company

REF : SLAS 2016 12

Resustat SL23

DESCRIPTION

Resustat SL23 is a static-dissipative resin based flooring system which is laid at 3 mm nominal thickness. The formulation comprises of a unique blend of conductive fillers blended with polyurethane resin components & pigments to provide an attractive smooth Matt finish.
The Resustat SL23 flooring system has an electrical conductivity leakage resistance of $<10^9$ ohms when tested to BS EN 61340.

ADVANTAGES

- Static-dissipative seamless matt finish
- Hard wearing durable floor for industrial use
- Ease of application
- Hygienic
- Decorative - available in an attractive range of colours
- Excellent abrasion and impact resistance
- Excellent chemical resistance
- Smooth finish for precise operating equipment

RECOMMENDED USES

- Pharmaceutical production
- Electronic industrial areas
- Television studios
- Operating theaters
- Chemical plants
- Domestic Studios
- Industrial Workshops

PRODUCT INFORMATION

System Thickness (dry)	Solids Content	Pack Size	Pack Make Up	Shelf life	Storage
3 mm	100%	16 kg.	16 kg. - 1 X Base 1 X Hardener 1 X Aggregate bag 1 X Conductive pack	12 Months (Base & Activator) 3 Months (Aggregate)	Keep out of direct Sunlight. Store in a Dry Place

DRYING TIMES & COVERAGE RATES at 20°C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
2.8 sq m per 16 kg. unit @ 3mm thickness	Including Aggregate 15 Mins	n/a	12 -16 Hours	24 Hours	7 Days

CPD CERTIFIED Construction CPD Certification Service

nbsPlus

riba product selector

Campden BRI food and drink innovation

BCF BRITISH COATINGS FEDERATION

MADE IN THE UK

FeRFA Resin Flooring Association

Specification

Product : Resustat SL23

Finish : Smooth Matt coloured profile

Thickness : 3 mm

Colour : Available in a Range Colours

Products required for this system

Prime : Resustat Primer

System : Resustat SL23 at 3mm

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.

Preparation

To achieve the best performance from **Resustat SL23** the correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25N/mm^2. All surfaces must be prepared by vacuum blasting or mechanical abrasion.

Copper Strips:
In order for static-dissipative systems to function effectively, it is essential that the system connects to electrical earth. Where ground floor slabs are laid direct to earth this is often sufficient. Where floors are not directly in contact, or earthing is poor, then copper strips should be laid onto the floor and connected to form a grid and secured to a suitable earthing point.

Priming

Resustat SL23 can be applied onto a cured coat of **Resustat Primer** two-pack solvent-free epoxy - to be used as a high build single coat conductive primer. Coverage 21 sq.m. per 5 kg. unit..
Rough or porous surfaces may require an additional coat of **Resuprime** or **Resuseal WB** which should be allowed to cure before **Resustat Primer** is applied. It is essential the primer coat seals the substrate so no air pockets or cavities remain.

If substrates have moisture levels above 75% RH prime the surface with **R.S.Dampshield** prior to **Resustat Primer** being installed. (number of coats dependent on moisture content)

IMPORTANT Take a check reading of the cured primer (<10^9 ohms) before proceeding.

Application Method

To ensure maximum bond is achieved, grooves must be cut into the perimeter of the subfloor prior to priming. Typically 2mm deep by 3mm wide, 150mm from, and running parallel with the walls and adjacent to any doorways, **Resustat** self smoothing systems should ideally be laid in bays to a maximum width of 5 m.

It is important to ensure that mixing is undertaken adjacent to the application area, and that materials are placed conveniently to ensure minimal lost time during the application process. Variation in mixing times and delays in application can result in inconsistency and colour variation.

Thoroughly premix the coloured base component ensuring any settled pigment is recovered, then add the hardener component and mix to an even consistency (1 minute). Using a rotary drum mixer or similar forced action mixer bowl add the aggregate component steadily and then add the conductive component and mix thoroughly for a maximum 2-3 minutes to ensure a lump free homogeneous compound.
When thoroughly mixed the compound should be poured evenly over the appropriate area to be covered (monitoring the rate of coverage to ensure correct depth of the 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.

Category Guide

FeRFA Category : 5

Technical Information

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

Slip Resistance	Dry	> 54
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	n/a
Method BS8204 /ASTM D4060	
Temperature Resistance	Tolerant of sustained temperatures of up to 60°C
Chemical Resistance	Good Chemical Resistance Consult RSL for Further details
Compressive Strength	n/a
Flexural Strength	n/a
Tensile Strength	n/a
VOC	14 g/l
	Calculation based on a full mixed unit
Life Expectancy	5 years plus
	Subjected to Industrial Traffic

CE

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BSEN 13813 SR B 3.1 - AR 1 - IR>4
Resin coating/screed for use inside buildings as per RSL data sheet

Wear resistance:	AR 1
Bond strength:	B 3.1
Impact resistance:	IR > 4

Maintenance and Cleaning

RSL recommend that **Resustat SL23** 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, R.S. Fats and Grease Remover** & **R.S. Oil Remover**. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.
Please refer to the RSL Guide to Cleaning of Resin Floors

Health and Safety

Resustat SL23 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.