



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Resuscreed 45 Data Sheet

### Specification notes

Product: **Resuscreed 45**

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**Resuscreed 45 Data Sheet**



REF : SC45 2017 03

# Resuscreed 45

## DESCRIPTION

Resuscreed 45 is a heavy duty, epoxy resin floor screed, with high chemical resistance and strong colour definition. Sealing is necessary where impervious finishes are required. Resuscreed 45 is normally laid at a 6mm nominal thickness.

The Resuscreed 45 formulation uses an aggregate component free of crystalline silica promoting lower health risks with less dust compared to traditional epoxy resin screeds.

## ADVANTAGES

- Low VOC content
- Hard wearing durable floor for Industrial Use
- Ease of application
- Can be used as a levelling or repair system
- Good slip - resistance properties
- Excellent abrasion and impact resistance
- Good chemical resistance

## RECOMMENDED USES

- Chemical production and storage
- Printing and packaging areas
- Engineering facilities
- Automotive industry
- Aerospace production areas
- Industrial workshops

## PRODUCT INFORMATION

System thickness (dry)	Solids content	Pack sizes	Pack make up	Shelf life	Storage
4 mm to 6 mm	100%	22.5 Kg. 45 Kg.	<b>22.5 kg. unit</b> - 1 X Base 1 X Hardener 1 X aggregate bag <b>45 kg. unit</b> - as above , 2 X aggregate bags	12 Months (Base & Hardener) 12 Months ( Aggregate)	Keep out of direct sunlight. 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
22.5 kg. will cover 1.6 sq m @ 6mm 45 kg. will cover 3.2 sq m @ 6mm	Including aggregate (30 Mins)	For seal coats 12–16 Hours (Depending on temperature)	24 Hours	72 Hours	Up to 7 Days



## Specification

Product : Resuscreed 45

Finish : Light Textured Coloured Finish

Thickness : 4-6 mm

Colour : Available in a Range Colours

## Products required for this system

Prime : Resuprime or R.S Dampshield. Resutack EP for coving

System : Resuscreed 45 at required thickness

Surface Seal : R.S. Screed Seal followed by Resucoat HB (Resupen WB as an optional matt coat)

## Preparation

To achieve the best performance from **Resuscreed 45** 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.

## Priming

**Resuscreed 45** can be applied onto a wet tack coat of **Resuprime** solvent free epoxy resin primer, normally applied at 4 sq.m. per kg. Very rough or porous surfaces may require an extra coat of **Resuprime** which should be allowed to dry before a tack coat is applied. Alternatively the surface of the wet primer can be scattered with a coarse grade kiln dried sand such as 14/25 mesh and then allowed to cure. **Resuscreed 45** must then be applied within 24 hours.

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

## Application

The ambient temperatures of the areas should not be allowed to fall below 10°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 5°C.

**Resuscreed 45** is composed of base resin, hardener and aggregate components. Base will be a gel—premix to return to liquid state. The resin and hardener must be completely mixed by slow speed, forced action mixer and the aggregate then added slowly. The complete mix should be spread evenly and compacted on the floor to the required weight, or thickness, and trowelled smooth. Over-trowelling should be avoided or resin-rich spots may be created.

**Resuscreed 45** should be worked with a trowel or float to achieve a dense, compacted finish. This is best achieved by the application of smooth even pressure in one direction, gradually increasing the pressure as the material compacts and beds down. Over-working the material will draw fines to the surface which may result in resin-rich spots and finish variations.

The surface should be protected from temperatures of less than 10°C and moisture in the early stages of cure.

**Resuscreed 45** is normally sealed by the application of one coat of **R.S. Screed Seal** at a rate of 3 sq m per kg. This would be followed by a further coat of **Resucoat HB Colour** at a rate of 3-4 sq m per kg. Rates of coverage for coatings vary depending on the uniformity and density of the screed.

## Coving

At 100mm nominal height, one 45 kg. unit of **Resuscreed 45** will typically form up to 16 linear Meter's of coving with a 100mm base and full radius. This must be applied onto a wet coat of **Resutack EP** straight away. Coving can be taken to a height of 300 mm if required.

All coving can be sealed using a variety of seal coats listed in the RSL range.

## Category Guide

FerFA Category : 6

## Technical Information

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

Slip Resistance Dry > 64  
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 80N/mm<sup>2</sup>

Flexural Strength 20N/mm<sup>2</sup>

Tensile Strength 20N/mm<sup>2</sup>

VOC 34 g/l  
Calculation based on a full mixed unit

Life Expectancy 6 years plus  
Subjected to Industrial Traffic  
RSL terms and conditions will apply

	
<b>Sherwin-Williams</b> Tower Works, Kestor Street, Bolton BL2 2AL	
<b>13</b>	
<b>BSEN 13813 SR B 3.5 - AR 0.5 - IR&gt;4</b>	
Resin coating/screed for use inside buildings as per RSL data sheet	
Wear resistance:	AR 0.5
Bond strength:	B 3.5
Impact resistance:	IR > 4

## Maintenance and Cleaning

RSL recommend that **Resuscreed 45** 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

**Resuscreed 45** 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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