



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Resuscreed 45 Technical Data Sheet

Specification notes

Product: **Resuscreed 45**

Supplier:

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Resuscreed 45

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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. The Resuscreed 45 formulation uses an aggregate component free of crystalline silica promoting a more environmentally friendly product with less dust compared to traditional epoxy resin screeds.

ADVANTAGES

- Hard wearing durable repairs for industrial use
- Ease of application
- Can be used as a repair system
- Can be feather edged
- Excellent abrasion and impact resistance
- Low odour
- Can be used to form coving and falls

RECOMMENDED USES

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

PRODUCT INFORMATION

System Thickness (Recommended)	4-6mm
Solids Content by Weight	98%
Pack Sizes	22.5kg & 45kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate (for 22.5Kg units) or 2 x Aggregate (for 45Kg units)
Shelf Life	36 months (Base, Hardener & Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C

APPLICATION INFORMATION at 20°C

Coverage Rate (Practical)	22.5Kg will cover 2.81 m ² @ 4mm or 1.87 m ² @ 6mm <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	30 Minutes
Recoating Intervals	For Seal Coats, 12 - 16 Hours
Light Traffic	12-16 hours with no seal coat, light traffic once sealed will depend on specified seal coat. (Please refer to individual datasheets where appropriate.)
Full Traffic	72 hours with no seal coat, full traffic once sealed will depend on specified final seal coat upon completion of the system. (Please refer to individual datasheets where appropriate.)
Full Chemical Cure	7 days



Specification

Product : Resuscreed 45

Finish : Textured finish

Recommended thickness range : 4mm to 6mm

Colour : Limited colour range, consult Sherwin-Williams

Products required for this system

Prime : Resuprime ST on dry substrates, or use Resuprime MVT on damp surfaces where required

System : Resuscreed 45

Surface Seal : As per specification (system must be sealed as Resuscreed 45 is not self sealing)

Preparation

New concrete Floors: Must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and make sure all residue 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 coating.

Where overcoating other systems such as epoxy coatings or screeds, as part of a specified composite system in the data sheets, please follow the recoat time as stated in the individual data sheets, the coating in each stage should be tack free, but not fully cured. If fully cured then mechanical preparation is required to ensure intercoat adhesion.

Priming

Open and porous substrates may require priming with **Resuprime ST** on dry substrates only with less than 75% ERH reading. Where the 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 recommended individual product data sheets.

Application

The ambient temperatures of the areas should not be allowed to fall below 15°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 10°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to installation.

Mixing: Pre-mix the coloured base component to a uniform consistency (N.B. base will appear gelled in the tin but will become fluid with mixing) then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Add the aggregate component slowly whilst mixing. Mix using an electric mixer for approximately two to three minutes until the three components have fully combined. For larger units a forced action mixer may be required to fully combine the aggregate into the resins.

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.

Category Guide

FeRFA Category : 6

Technical Information

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

Slip Resistance Dry > 60
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 n/a

Method BS8204 /ASTM D4060

Temperature Resistance Tolerant of temperatures up to 60°C

Chemical Resistance Good chemical resistance
Consult Sherwin-Williams on specific materials

VOC 36 g/l
Calculation based on a full mixed unit



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BSEN 13813 SR B 3.5 - AR 0.5 - IR>4
Resin coating/screed for use inside buildings as per data sheet
Wear resistance: AR 0.5
Bond strength: B 3.5
Impact resistance: IR > 4

Maintenance and Cleaning

Sherwin-Williams 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**, **Degreaser W500** & **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

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 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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