PROTECTIVE & MARINE COATINGS

Resuflor Screed

PRODUCT TECHNICAL DATA

(Formerly known as Resuscreed 45)

PRODUCT DESCRIPTION

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

RECOMMENDED USE

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

PRODUCT DATA

Volume Solids:	~100%
VOC:	<36 g/l calculated per full mixed unit
Colours:	Natural
Finish:	Smooth gloss
Flash Point:	N/A
Cleanser/Thinner:	Thinning not recommended
Pack Size:	22.5 kg & 45 kg
Pack Weights:	1.71kg base/0.78kg hardener/20kg aggregate (22.5kg) 3.43kg base/1.57kg hardener/2 x 20kg aggregate (45kg)
Mixing Ratio:	2.2 parts base to 1 part hardener to 25.6 parts aggregate by weight only
Mixed Density:	Approximately 2.30 g/cm^3
Shelf Life:	36 months (Base, hardener & aggregate) when stored in unopened containers
Storage:	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C
Recommended Application Methods:	Trowel or float

Application at 20°C

For seal coats:	12 – 16 hours
Light Traffic:	12 – 16 hours
Full Traffic:	24 – 36 hours
Full Chemical Cure	7–10 days

Pot Life: 15 - 20 minutes from mixing, based on 22.5 kg pack size

The pot life may be shorter for larger pack sizes if the product is not used within the pot life limit.

Note: *All mixed product must be used within the pot life time limit, if the product is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.*

Coverage Rate: 22.5Kg will cover 2.81 m^2 @ 4mm or 1.87 m^2 @ 6mm (Theoretical)

Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.

System Thickness: (Recommended) 4-6 mm

The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.

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SURFACE 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. Fats, oils or greases must be removed by mechanical means and detergent washing and making sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using **Resuflor Patch**.
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 the existing floor coating.
Where **Resuflor Screed** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

PRIMING

Open and porous substrates should be primed with one or two coats of **Resuprime ST** to ensure a sealed surface**.** Substrates should be dry with a moisture content of 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. Please refer to the table below for required number of coats to achieve proper moisture tolerance.

ERH%	Required Coating Thickness
75-85	1 coat of Resuprime MVT at 200 µm per coat
85-92	2 coats of Resuprime MVT at 200 µm per coat
92-97	3 coats of Resuprime MVT at 200 µm per coat

For further information please refer to recommended individual product data sheets.

APPLICATION CONDITIONS

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 the installation.

*See Sherwin-Williams **Resuflor Industry** System Guide for recommended floor systems.*

MIXING AND APPLICATION

Mix the entire contents of the **Resuflor Screed** Base with **Resuflor Screed** 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.

Resuflor Screed 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.

Resuflor Screed is usually sealed with **Resuflor GC UVR** and/or **Resuflor HB** applied by roller, please see SW System Guides for details on this.

TECHNICAL INFORMATION

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

Category Guide:	FerFA Category 6
Bond Strength: (BS EN 13892-8:2002)	>3 N/mm² (Substrate failure)
Temperature Resistance:	Tolerant of temperatures up to 60°C
Impact Resistance: (BS EN 1504-2:2004)	Class II
Abrasion Resistance: (BS EN 13892-4:2002)	AR 0.5 (Less than 50 microns wear)
Reaction to Fire: (BS EN 13501-1:2018)	Bfl-s1
Compressive Strength: (BS EN 13892-2:2002)	63 N/mm²
Flexural Strength: (BS EN 13892-2:2002)	10 N/mm²
Tensile Strength: (BS 6319-7:1985)	8.6 MPa

CE MARK

CE

Sherwin-Williams Protective & Marine
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom
Tel: +44 (0) 1204 521771 F: +44 (0) 1204 38211516

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

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.
The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

HEALTH AND SAFETY

Consult Product Health and Safety Datasheet for information on safe storage, handling and application of this product.

This datasheet is specifically subject to the disclaimer which can be found at: http:/protectiveemea.sherwin-williams.com/Home/Disclaimer