



DESCRIPTION

Resufil is a granite reinforced three component water-based polyurethane infill screed designed to fill holes and indentations in a concrete subfloor prior to overlaying with Resuthane™ self-smoothing and screed systems. Resufil can also be used to back-fill drainage channels and form falls or ramps in floors.

ADVANTAGES

- Can be applied from 6mm to 60mm
- Fast curing
- Self sealing
- High strength
- Matt finish
- Extremely hard wearing

RECOMMENDED USES

- Infilling pot holes
- Back filling drains
- Creating ramps
- Food factories
- Kitchens
- Pharmaceutical and chemical plant processing
- Engineering factories

PRODUCT INFORMATION

System Thickness (Recommended)	6mm to 60mm
Solids Content	100% solids by weight
Pack Sizes	25 kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate
Shelf Life	12 months (Base & Hardener) 6 months (Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C and 30°C. Aggregates must be stored in a dry area to prevent contamination from moisture, as this will have a detrimental effect on the product.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	25 kg will cover 1.1 m ² @ 10mm thickness <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	15 minutes
Recoating Intervals	6 - 8 hours
Light Traffic	6 - 8 hours
Full Traffic	48 hours
Full Chemical Cure	3 - 5 days



Specification

Product : Resufil

Finish : Natural speckled

Recommended thickness range : 6mm to 60mm

Colour : N/A

Products required for this system

Primer : Resuprime / R.S. Dampshield or Dampshield FH

System : Resufil at required Thickness

Surface Seal : Not required

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 make sure all residue of 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.

Priming

Open and porous substrates will require priming with **Resuprime NT** on dry substrates only with less than 75% ERH reading. Where the Relative Humidity of a substrate exceeds 75% ERH **R.S. Dampshield** or **R.S. Dampshield FH** 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 1coat of R.S.DAMPSHIELD or DAMPSHIELD FH at 200 microns per coat

85-92 2coats of R.S.DAMPSHIELD or DAMPSHIELD FH at 200 microns per coat

92-97 3coats of R.S.DAMPSHIELD or DAMPSHIELD FH at 200 microns per coat

For further information please refer to individual product data sheets.

Application

Resufil 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.

When the primed surface is tack free **Resufil** should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and add to application problems). NB: Cure times are extended at low temperatures.

Mix the base component to an even consistency. 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. Apply to pre-primed areas and level between battens as necessary with a steel float, alternatively a sledge can be used set at the required thickness and again finished with a steel float.

Apply **Resufil** in layers up to 60mm. Ensure that the material is well compacted throughout its depth and that each layer is keyed together. Allow 6-8 hours between layers. At the top surface, compact and finish to the required depth below the final surface. After a minimum of 8 hours **Resuthane** products can be laid to the required depth and finish.

Category Guide

FerFA Category : 8

Technical Information

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

Slip Resistance N/A

Method BS7976 pt1-3 2002

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 BS 8204/ ASTM D4060

Temperature Resistance Tolerant of sustained temperatures of up to 80°C @ 9mm

Chemical Resistance Excellent chemical Resistance Consult Sherwin-Williams on specific materials

VOC <2 g/l calculated per full mixed unit

Life Expectancy Up to 10 years Subject to industrial traffic. Sherwin-Williams terms and conditions will apply



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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 **Resufil** 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, Oils & 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 Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

Resufil 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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