



Resuflor VF

Revised 03/2018 Issue 1—REF : FLVF

DESCRIPTION

Resuflor VF is a self smoothing epoxy resin seamless floor finish with low VOC content, with non dusting aggregates designed to provide a flat hard wearing gloss finish 2-3 mm in thickness following the profile of the existing floor. The system gives aesthetically pleasing results with good chemical resistance and durability.

ADVANTAGES

- Seamless
- Silica free
- Hard wearing durable floor for industrial use
- Ease of application
- Hygienic
- Excellent abrasion and impact resistance
- Good chemical resistance
- Smooth finish for precise operation equipment

RECOMMENDED USES

- Pharmaceutical production
- Printing and packaging areas
- Television studios
- Automotive production
- Domestic studios
- Industrial workshops
- Medical and healthcare

PRODUCT INFORMATION

System Thickness (Recommended)	2-3mm
Solids Content by Weight	100% solids by weight
Pack Sizes	29.5kg
Pack Make Up	1 x Base 1 x Hardener 1 x Filler SL1 Aggregate
Shelf Life	12 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 (Theoretical)	29.5kg will cover 7.8m ² at 2mm thickness or 5.2m ² at 3mm thickness *Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
Pot Life	25-30 Minutes
Recoating Intervals	12-16 hours
Light Traffic	24 hours
Full Traffic	72 hours
Full Chemical Cure	7 Days



Specification

Product : Resufloor VF

Finish : Smooth gloss

Recommended thickness range: 2-3mm

Colour : Available in a range of colours, please consult Sherwin-Williams

Products required for this system

Primer : Resuprime NT or R.S. Dampshield on damp surfaces, where required.

System : Resufloor VF

Optional Finish Coat: Resupen WB Clear Matt for a matt finish

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. Local repairs should be carried out using Resupatch.

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 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
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75-85	1coat of R.S.DAMPSHIELD at 200 microns per coat
85-92	2coats of R.S.DAMPSHIELD at 200 microns per coat
92-97	3coats of R.S.DAMPSHIELD at 200 microns per coat

For further information please refer to 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 component (base) to a uniform colour, then mix the entire contents of base with the hardener. If a separate mixing bucket is being used ensure all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately one to two minutes until the two components have fully combined then add the aggregate slowly. Mix for a further 1-2 minutes until the aggregate has fully combined and there are no lumps. The mixed unit should be applied immediately.

Resufloor VF should be worked with a trowel or float to achieve an even smooth finish. This is best achieved by the application of smooth even pressure with the compound poured over the correct coverage rate after fixing the stop ends to control the flow of the material. Then roll the area with a spiked roller to achieve an even smooth surface and remove entrapped air. Do not re-roll the area later than 10-15 mins. The surface should be protected from temperatures of less than 10°C and moisture in the early stages of cure. This could adversely affect the flow, levelling and surface finish of Resufloor VF.

Category Guide

FeRFA Category : 5

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	Average loss per 1000 cycles
Method BS8204 /ASTM D4060	66 mg

Temperature Resistance	Tolerant of temperatures up to 60°C
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Chemical Resistance	Good Chemical Resistance
	Consult Sherwin-Williams on specific materials

VOC	81 g/l Calculated per full mixed unit
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Life Expectancy	3-5 years depending on applied thickness and subjected to traffic according to FeRFA classification. 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

Resufloor VF should be cleaned with a regular industrial cleaning regime, after specified full chemical cure time limit, 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.

Health and Safety

Resufloor VF 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 the 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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