



Resufloor™ FX S

Flexible epoxy/polyurethane resin self-smoothing floor system

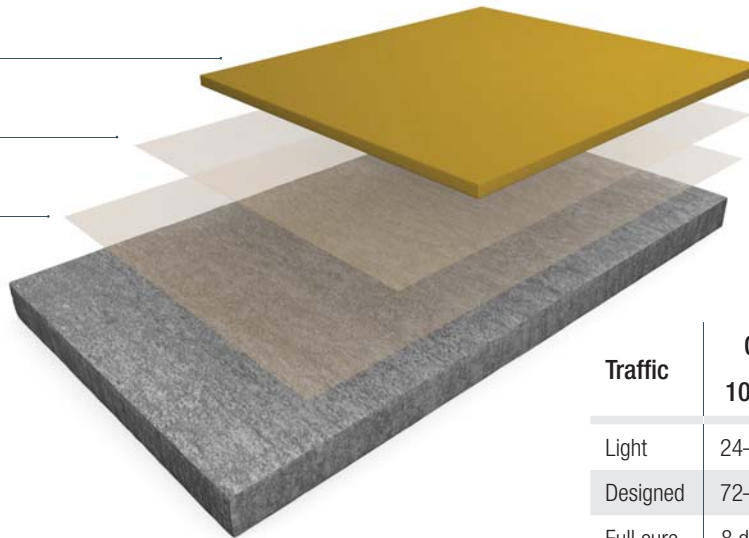
Resufloor™ FX S is a self-smoothing polyurethane modified epoxy resin floor system which provides a flat hard wearing gloss finish 2–3 mm in thickness with a degree of flexibility following the profile of the existing floor. The system provides aesthetically pleasing results with resistance against chemical attack and abrasion. It is ideal for production areas and clean room type situations where a smooth and tough hygienic floor with some flexibility is required.

Screed: _____
Resufloor FX

Primer: _____
Resuprime (optional)

Primer: _____
Resuprime

Substrate: _____



Traffic	Cure to service (hrs)		
	10°C	20°C	30°C
Light	24–36	12–16	8–12
Designed	72–96	48–72	36–48
Full cure	8 days	up to 7 days	5 days

Benefits

- Seamless.
- Flexibility.
- Gloss finish.
- Silica free.
- Extremely hard wearing.
- Hygienic.
- Good chemical resistance.
- Smooth finish for precise operation equipment.

Scope of use

- Laboratories.
- Studios.
- Workshops.
- Printing and packaging areas.
- Food manufacture and processing.
- Brewing and beverage.
- Cultivation facilities.
- Automotive production.
- Pharmaceutical and chemical plant processing.

Typical physical properties

Hardness @ 24 hours, Shore D – BS ISO 7619-1:2010	57
Abrasion resistance – BS EN 13892-4:2002	AR0.5
Compressive strength – BS EN ISO 604:2003	27.6 MPa
Tensile strength – BS EN ISO 527-2:2012	4.8 MPa
Flexural strength – BS EN ISO 178:2010+A1:2013	-
Bond strength – BS EN 13892-8:2002	>3 N/mm ² (substrate failure)
Impact resistance – BS EN ISO 6272-1:2011	-
Temperature resistance	Tolerant of temperatures up to 60°C at 3 mm
Chemical resistance	Good
Reaction to fire – EN13501-1	-
UV stable	No
FerFa class	Class 5
System thickness	3 mm



System composition

VOC EC Solvent Emissions Directive

Component	Product	Application	VOC	Theoretical consumption	Coverage per unit m ²	Packaging
Primer	Resuprime	Roller	85 g/L	0.25 kg/m ²	20 m ² (5 kg unit)	5 kg / 15 kg
NB: An additional application of Primer may be required on porous surfaces to ensure a fully sealed surface.						
Screed	Resuflox FX	Trowel	95 g/L	5.9 kg/m ² (3 mm depth)	5 m ²	29.5 kg

Application guidance

Important installation note

Sherwin-Williams materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the system in conjunction with the product data sheets used for the system. Contact Sherwin-Williams Technical Service Department for assistance prior to application. Email: technicale@sherwin.com or Tel: +44 (0)1204 556457.

Substrate requirements and surface preparation

General considerations

Sherwin-Williams flooring systems can be applied to a variety of substrates. Proper surface preparation is required, specific of the substrate type. Concrete is the most common substrate and this document states surface preparation guidance for this specific substrate. Other types of substrate can be covered too. Please contact Sherwin-Williams Technical Service Department prior to starting the project to obtain guidance on surface preparation for specific substrate or condition.

Concrete – substrate requirements

To achieve the best performance from Resuflox FX S substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25 N/mm².

Ideally substrates should be free from rising damp and water pressure and it is good practice to take a moisture content reading of a concrete substrate, particularly for any new slabs.

If substrates have moisture levels above 75% RH as per BS8204, or if no damp proof membrane is present then R.S. Dampshield can function as a surface applied damp proof membrane as the primer as advised in with the product data sheet. The number of coats of R.S. Dampshield will be dependent on the moisture content.

Concrete – surface preparation

Concrete surfaces should be prepared by vacuum shot-blasting or mechanical abrasion as required to achieve a surface texture which will function as a mechanical key to maximise adhesion of the resin system.

Thoroughly vacuum the surface and any joints to remove all loose dust and debris. Ensure that all preparation is carried out to the edges of slabs, walls etc. to ensure full bonding of the system to a sound surface. Any debris should be recovered from the floor surface and joints etc.

Significant mechanical damage, pitting, and cracks may need to be addressed and repaired prior to the application of the primer; these should be identified by survey.

For recommendations, consult Sherwin-Williams Technical Service Department.

Temperature

Throughout the application process, substrate temperature ideally should be 10°C–25°C and a relative humidity <90% ERH, with a minimum air temperature of 15°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm. Substrate temperature must be at least 3°C above the dew point. The material should not be applied in direct sunlight, if possible.



Application guidance

System installation

Important: It is critical to adhere to the mixing instructions for full system cure and performance.

1. Primer	Resuprime	<ul style="list-style-type: none"> • Mix Resuprime Part A (base) with Resuprime Part B (hardener). These units are in preweighed containers. Mix using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained. • Resuprime is applied by roller, brush or squeegee and should be applied at 4 m²/kg evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture. • Primer should be allowed to cure for at least 10 hours at 20°C and not longer than 48 hours. NB: An additional application of primer may be required on porous surfaces to ensure a fully sealed surface which has no cavities or pinholes which could trap air. This is recommended as standard practice where its essential to achieve the optimum finish with Resuflox FX S and avoid any possibility of pinholes from the substrate creating isolated blemishes in the finished floor.
2. Screed	Resuflox FX	<ul style="list-style-type: none"> • Premix Resuflox FX Part A (coloured base) ensuring any settled pigment is recovered, then add Resuflox FX Part B (hardener) and mix to an even consistency for one to two minutes. Using a rotary drum mixer or similar forced action mixer bowl add the Resuflox FX Part C (aggregate) steadily and mix thoroughly for a maximum 2–3 minutes to ensure a lump free homogeneous compound. • Apply to pre-primed areas as soon after mixing as possible, (delay can result in variation in surface finish, colour and add to application problems). • When thoroughly mixed units should be poured evenly over the appropriate area to be covered (monitoring the rate of coverage to ensure correct depth of the screed). Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. Low temperatures and reduced thickness may reduce the flow properties of these products. Applied at 5 m² a 29.5 kg unit achieves a 3 mm thickness on a good surface. • Roll the area with a spiked roller within 10–15 minutes to achieve an even smooth surface and to remove any trapped air. • Units should be applied consistently with mixes from the same batch used consecutively where adjacent areas are being laid. • Resuflox FX should be allowed to cure and will be suitable for light traffic after 24 hours at 20°C.
3. Joints		<ul style="list-style-type: none"> • Any functioning joints in the subfloor should be continued through the resin flooring system and filled with Resujoint V. The spacing and type of joints should be determined prior to the resin floor system being installed. • Mix Resujoint V Part A (base) with Resujoint V Part B (hardener). These units are in preweighed containers. • Mix using a low speed mixer and paddle (300–400 rpm) for 2–3 minutes, until a uniform mixed product is obtained. • Apply the Resujoint V immediately to the prepared and cut joints with a knife to a consistent smooth finish.
4. Coving		<ul style="list-style-type: none"> • If coved skirtings are required please see the Resuscreed 45 System Sheet or consult Sherwin-Williams Technical Service Department.

NB: Cure times are extended at low temperatures.

Clean up

Clean up mixing and application equipment immediately after use. Use appropriate solvent such as Xylene. Observe all fire and health precautions when handling or storing solvents.

Safety

Refer to the SDS sheet before use. All applicable laws and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials should be done in accordance with applicable local authority codes.

Material storage

Store materials in a temperature controlled environment (15°C–30°C) and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

Maintenance and cleaning

Sherwin-Williams recommend 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 & 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 for cleaning resin floors for advice.



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Resufloor FX S – finished working system, commercial refectory, United Kingdom.

Disclaimer

The information and recommendations set forth in this document 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(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult technicale@sherwin.com to obtain the most recent product data information and application instructions.

Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. No warranty or guarantee of any kind is made by Sherwin-Williams, expressed or implied, statutory, by operation of law or otherwise including merchantability and fitness for a particular purpose.



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