



# Epo-Flex FX

(Formerly known as Resuflor FX)

Revised 06/2019—Issue 1 : REF : FLFX 2016 11

## DESCRIPTION

Epo-Flex FX is a self-smoothing polyurethane modified epoxy resin floor finish designed to provide a hard wearing gloss finish between 2.5 - 3 mm thickness which has a degree of seamless flexibility.

## ADVANTAGES

- Tough & seamless with a degree of flexibility
- Hard wearing durable floor for industrial use
- Ease of application
- Hygienic
- Decorative - available in an attractive range of colours
- Excellent abrasion and impact resistance
- Good chemical resistance
- Smooth finish for precise operating equipment

## RECOMMENDED USES

- Buildings with plywood or chipboard floor substrates
- Retail outlets
- Printing and packaging areas
- Television studios
- Mezzanine areas
- Nightclubs
- Domestic studios

## PRODUCT INFORMATION

System Thickness (Recommended)	2.5 - 3mm
Solids Content by Weight	100%
Pack Sizes	29.5kg
Pack Make Up	1 x Base 1 x Hardener 1 x Filler SL1 Aggregate
Shelf Life	36 months (Base, Hardener & Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, not below 15°C.

## APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	5 sq m per 29.5kg unit @ 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	30 minutes
Recoating Intervals	24 - 32 hours
Light Traffic	48 hours
Full Traffic	96 hours
Full Chemical Cure	10 - 14 days



## Specification

**Product :** Epo-Flex FX

**Finish :** Smooth Gloss

**Recommended thickness range :** 2.5 -3 mm

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

### Products required for this system

**Primer :** Resuprime ST / Resuprime MVT

**System :** Epo-Flex FX at required thickness

**Surface Seal :** Not required

(Optional Resupen WB Matt for a matt finish or Resudeck with aggregate for a non-slip 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/mm<sup>2</sup> 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 **Resuscreed PA**.

**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 over-coating 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.

**Timber Floors :** Must be clean, sound, dry . Old clear varnish/topcoat must be removed/sanded prior to application, as it may affect the inter-coat adhesion with **Epo-Flex FX**.

### Priming

Open and porous substrates will 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 1coat of Resuprime MVT at 200 microns per coat

85-92 2coats of Resuprime MVT at 200 microns per coat

92-97 3coats 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 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.

**Epo-Flex FX** 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 15-20 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

**Epo-Flex FX**.

## Category Guide

FeRFA Category : 5

### Technical Information

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

**Slip Resistance** Dry > 50  
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** AR 0.5


BS EN 13892-4:2002

**Temperature Resistance** Tolerant of temperatures of up to 60°C

**Chemical Resistance** Good chemical Resistance  
Consult Sherwin-Williams for specific materials.

**VOC** 95 g/l calculated per full mixed unit

**Life Expectancy** Up to 5 years  
Subjected to Industrial Traffic  
Sherwin-Williams terms and conditions will apply.

	
<b>Sherwin-Williams Protective &amp; Marine</b> Tower Works, Kestor Street, Bolton BL2 2AL, United Kingdom Tel: +44 (0) 1204 521771 F: +44 (0) 1204 382115	
16	
<b>BSEN 13813 SR B 2 - AR 0.5 - IR&gt;4</b>	
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 **Epo-Flex FX** 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, W500 Degreaser & 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

**Epo-Flex FX** 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

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.

Sherwin-Williams Protective & Marine  
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom,  
Tel : + 44 (0) 1204 521771 F: + 44 (0) 1204 382115  
W : Sherwin-williams.com/protectiveEMEAI  
Registered in England : Reg. No. 893081  
Reg. Office Tower Works, Kestor Street, Bolton BL2 2AL England