



04/2024 Issue 1 - REF: PFLWB

## PRODUCT DESCRIPTION

Resufloor WB is the next generation in water based epoxy floor and wall coatings; a two-component polyamine epoxy with excellent chemical and abrasion resistance that is breathable. A LEED v4 and v4.1 BETA compliant material that offers improved performance while maintaining ease of application. With excellent adhesion to concrete, and other surfaces providing attractive, hard-wearing dust-free finish. Resufloor WB can act as a curing membrane to increase hardness of concrete by allowing full hydration of cement and can be applied to new concrete, 7 days after being poured.

### ADVANTAGES

- Resists debonding from moisture vapour transmission
- Excellent chemical and abrasion resistance
- Application friendly
- French VOC Regulation A+
- German ABG/AgBB
- Belgian VOC
- Italian CAM
- LEED v4 and LEED v4.1 BETA Compliant
- Ease of application and clean up
- BREEAM International: Compliance with 'Exemplary' criteria on VOC emission
- No primer required, tolerant of moisture

### RECOMMENDED USE

- Industrial & warehouse floors
- Automotive showrooms
- Laboratories
- Retail facilities
- Schools & hospitals
- Commercial buildings and offices
- Assembly & production areas
- Light manufacturing plants

## PRODUCT DATA

**Volume Solids:** 41% ± 2% mixed, may vary by colour

**VOC:** <10 g/l calculated per full mixed unit

**Colours:** High Performance Flooring Colour Card or Clear

**Finish:** Gloss Finish

**Flash Point:** >110°C mixed

**Cleanser/Thinner:** Water

**Pack Size:** 5 kg

**Pack Weights:** 4.1kg (base) and 0.9kg (hardener)

**Mixing Ratio:** 4.55:1 by weight

**Mixed Density:** Approximately 1.12 g/cm<sup>3</sup> (may vary with colours)

**Shelf Life:** Part A: 24 months, unopened container  
Part B: 36 months, unopened container

**Storage:** Store indoors between 5°C and 30°C. Do not allow to freeze.

**Recommended Application Methods:** Brush, Roller and/or Rubber Squeegee

### Typical properties at 20°C

Recoating Intervals: 6 hours (maximum 72 hours)

Light Traffic: 18 hours

Full Traffic: 48 hours

Full Chemical Cure: 7 days

**Pot Life:** 5 hours from mixing.

Note: All product must be used within the pot life 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:** 5 kg will cover 33 m<sup>2</sup> at 125µm. Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate conditions, texture and porosity.

### Typical Consumption:

125-300µm WFT.

50-125µm DFT. The suggested thickness range is calculated based on average volume solid as a general recommendation, for specified conditions and for each application may vary.

## SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm<sup>2</sup>, a minimum tensile strength of 1.5 N/mm<sup>2</sup> and a relative humidity at the surface of no more than 75%. (If not used as a curing membrane for concrete).

It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment. Grinding or light contained shot-blasting to CSP 1-3, for detailed information, refer to ICRI Guideline No.310.2R-2013, should be used for the thinner synthetic flooring types to ensure that the profile does not reflect in the finish.

After surface preparation, all loose debris and dirt should be removed using vacuum equipment.

Weak concrete must be removed, and local repairs carried out



04/2024 Issue 1 - REF: PFLWB

## APPLICATION CONDITIONS

The recommended application temperatures of the areas should be kept between 15 - 30°C throughout the application and the curing period, otherwise this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation forming.

During the early stages of curing, the coating is sensitive to rain, dew, high humidity and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours.

Applied coating should be protected from moisture during application and during the curing period. Exposure to moisture during this time can cause surface and colour variations.

## MIXING AND APPLICATION

Pre-mix the base component to a uniform consistency then add the entire contents of the hardener to the base and mix by using a slow speed handheld powered mixer and mixing paddle for approximately two to three minutes to achieve consistent mixture. For Clear applications, use the Ultra Deep Base. That the material is white but will dry Clear.

The addition, by volume, is optional of up to 10% water to the homogeneous mix of A and B, then mix until homogeneous.

Note: Do not use a separate mixing bucket as it may affect the mixing ratio.

Apply the whole mixed unit by using squeegee, roller and/or brush to achieve the maximum coverage within the specified pot life time frame.

Resufloor WB can act as a curing membrane to increase hardness of concrete by allowing full hydration of cement. Resufloor WB can be applied to a new (green) concrete, 7 days after being poured. In such cases expect surface gloss reduction and delay in cure process due to substrate dampness.

## TECHNICAL INFORMATION

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

**Category Guide:** FeRFA Category 1

**Bond Strength:** >3 N/mm<sup>2</sup> (Substrate failure)

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

**Impact Resistance:** Class II

**Abrasion Resistance:** 102 mg/ loss per 1000 cycles

**Reaction to Fire:** Bfl-s1

**Water Vapour Transmission Rate:** 73.19 g/m<sup>2</sup> per day.

## 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 Safety Datasheet for information on safe storage and handling of this product.

Sherwin-Williams UK Limited, Protective & Marine Division  
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom.

T: +44 (0)1204 521771 F: +44 (0)1204 382115

W: <https://industrial.sherwin-williams.com/emea/gb/en/resin-flooring.html>

Registered in England Reg. No. 2968830 Reg. Office: Station Lane, Witney, Oxfordshire, United Kingdom, OX28 4XR



1812

Sherwin Williams Protective & Marine Coatings  
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom  
Tel: +44 (0) 1204 521771 F: +44 (0) 1204 382115

23

1812-CPR-2063  
EN 1504-2

Surface protection products - Coatings  
Principle intended uses - Physical resistance

Reaction to fire : B<sub>f1</sub>-s1  
Abrasion resistance : Weight loss < 3000 mg  
Capillary absorption and permeability to water : w < 0.1 kg/m<sup>2</sup>.h<sup>0.5</sup>  
Impact resistance : Class II (> 10 Nm)  
Adhesion strength : ≥ 2.0 N/mm<sup>2</sup> (1.5 N/mm<sup>2</sup>)