New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

*Protective & Marine Coatings*
PRODUCT DATA SHEET

# RESUFLOR™ HB

10/2024 Issue 11 – REF: COHB

## PRODUCT DESCRIPTION

Resuflor™ HB is a two-pack high-performance floor coating based on high solids epoxy resin technology which is designed to provide tough and durable floor coating in a variety of thicknesses for a wide range of applications. The coating will provide a gloss finish to which anti-slip aggregate can be added if required. .

## ADVANTAGES

- High-build finish
- High solids
- Hygienic and easily cleaned
- Good colour stability
- Excellent slip resistance with combination of aggregates.
- Excellent ease of decontamination
- Ease of application
- High gloss finish
- Low odour
- Excellent adhesion
- Skydrol and Hyjet resistant

## RECOMMENDED USE

A wide range of industrial applications such as:

- Food and beverage manufacture
- Chemical plant rooms
- Engineering workshops
- Aviation and automotive areas
- Factory units
- Warehouses
- Demarcation and walkways

## PRODUCT DATA

**Volume Solids:** ~100%

**VOC:** <200 g/l calculated per full mixed unit

**Colours:** 12 standard RAL shades, others available on request.

**Finish:** Gloss

**Flash Point:** N/A

**Cleanser/Thinner:** Thinning not recommended

**Pack Size:** 5 kg, 15 kg & 25 kg can supply in drums

**Pack Weights:** 4.15 kg base/0.85 kg hardener
12.45 kg base/2.55 kg hardener
20.75 kg base/4.25 kg hardener

**Mixing Ratio:** 5 parts base to 1 part hardener by weight only

**Mixed Density:** ~1.60 g/cm³

**Shelf Life:** 36 months (Base and Hardener)
when stored in unopened containers

**Storage:** Keep out of direct sunlight.
Store in a dry place, between 5°C - 30°C

**Recommended Application Methods:** Brush, roller or squeegee.

**Typical properties at 20°C**
Minimum recoating intervals:
12 to 16 hours or once surface has lost tackiness
Light Traffic: 12 to 16 hours
Full Traffic: 24 to 36 hours
Full Chemical Cure: 7 to 10 days

**Pot Life:** 25 to 30 minutes from mixing.
Pot life refers to the usable working life of the material following mixing and immediate application. If product is left in the container after mixing and not used, hazardous fumes may be released due to an exothermic reaction.

**Typical Consumption:**
0.2 - 0.3kg/m² per coat WFT
The coverage rate will vary depending on the texture and porosity of the substrate, site conditions, film thickness and method of application.

## SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm², a minimum tensile strength of 1.5 N/mm² and a relative humidity at the surface of no more than 75%.

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.

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## 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.

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.

## RECOMMENDED SYSTEMS

Open and porous substrates may require priming.

Resuprime™ ST may be used as primer on dry substrates with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH Resuprime™ MVT may be used, please contact Sherwin-Williams for a specification.

For further information please refer to recommended individual product data sheets.

## MIXING AND APPLICATION

Materials should be pre-conditioned at 15°C to 25°C prior to use. Mix the entire contents of the base component with the hardener component using a low speed electric mixer (300 to 400 rpm) for 1 to 2 minutes until homogeneous.

The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross rolled to ensure even application and to minimise roller marks.

## TECHNICAL INFORMATION

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

**Category Guide:** FeRFA Type 2

**Bond Strength:** >3 N/mm² (Substrate failure)
(BS EN 13892-8:2002)

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

**Impact Resistance:** Class II
(BS EN 1504-2:2004)

**Abrasion Resistance:** 140mg loss per 1000 cycles
(ASTM D4060)

**Reaction to Fire:** Bfl-s1
(BS EN 13501-1:2018)

**Compressive Strength:** 9.6 MPa
(BS EN ISO 604:2003)

**Flexural Strength:** 3.2 N/mm²
(ISO 178:2010)

**Tensile Strength:** 3.6 MPa
(BS EN ISO 527-2:2012)

**Ease of Decontamination:** Excellent
(ISO 8690:1988)

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1812-CPR-2063
EN 1504-2

Surface protection products - Coatings
Principle intended uses - Physical resistance

Reaction to fire : $B_{fl}$-S1
Abrasion resistance : Weight loss < 3000 mg
Capillary absorption and permeability to water : w < 0.1 kg/m².h$^{0.5}$
Impact resistance : Class II (> 10 Nm)
Adhesion strength : ≥ 2.0 N/mm² (1.5 N/mm²)

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## 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

## 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.

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