



# New Guard Coatings Group

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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.

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**PROTECTIVE  
&  
MARINE  
COATINGS**

**Resuflor HB**  
**PRODUCT TECHNICAL DATA**  
(Formerly known as Resucoat HB)

**PRODUCT DESCRIPTION**

Resuflor HB is a two-pack solvent-free high-performance floor coating based on high solids epoxy resin technology which is designed to provide tough and durable floor protection finish in a variety of thicknesses and colours for a wide range of applications. The coating will provide smooth gloss finish to which anti-slip aggregate can be added if required. Resuflor HB is easy to apply by roller, squeegee and paint brush to create a seamless, hard wearing and hygienic floor finish.

**ADVANTAGES**

- High-build finish
- High solids
- Hygienic and easily cleaned
- Good colour stability
- Excellent slip resistance with addition of aggregates
- Ease of application
- Excellent high gloss finish
- Low odour
- Excellent adhesion
- Solvent free

**RECOMMENDED USE**

- Food processing and beverage areas
- Chemical plant rooms
- Engineering workshops
- Aviation and automotive areas
- Factory units
- Warehouses
- Excellent for all demarcation and walkways

**PRODUCT DATA**

<b>Volume Solids:</b>	~100%
<b>VOC:</b>	<200 g/l calculated per full mixed unit
<b>Colours:</b>	See Resuflor colour chart
<b>Finish:</b>	Smooth gloss
<b>Flash Point:</b>	N/A
<b>Cleanser/Thinner:</b>	Thinning not recommended
<b>Pack Size:</b>	5 kg & 15 kg
<b>Pack Weights:</b>	4.15 kg base/0.85 kg hardener (5kg) 12.45 kg base/2.55 kg hardener (15kg)
<b>Mixing Ratio:</b>	5 parts base to 1 part hardener by weight only
<b>Mixed Density:</b>	Approximately 1.60 g/cm <sup>3</sup>
<b>Shelf Life:</b>	36 months (Base and Hardener) when stored in unopened containers
<b>Storage:</b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 20°C
<b>Recommended Application Methods:</b>	Brush, roller and squeegee

**Application at 20°C**

<b>Recoating Intervals:</b>	12 – 16 hours or once surface has tackiness
<b>Light Traffic:</b>	12 – 16 hours
<b>Full Traffic:</b>	24 – 36 hours
<b>Full Chemical Cure</b>	7–10 days

**Pot Life:** 15 – 20 minutes from mixing, based on 5 kg pack size

*The pot life may be shorter for larger pack sizes if the product is not used within the pot life limit.*

**Note:** All mixed product must be used within the pot life time 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 17 m<sup>2</sup> @ 200 µm WFT (Theoretical)

*Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.*

**System Thickness: (Recommended)** 200 – 250 µm

*The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.*



## Resufloor HB PRODUCT TECHNICAL DATA

### SURFACE 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 making sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using **Resufloor Patch**.

**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 the existing floor coating. Where **Resufloor HB** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

#### PRIMING

Open and porous substrates may require priming with **Resuseal WB** or **Resuprime ST** may be used as primer on dry substrates only with less than 75% ERH reading. **Duraplate 301W** should be used as a primer onto steel substrates where appropriate.

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. Please refer to the table below for required number of coats to achieve proper moisture tolerance.

**ERH% Required Coating Thickness**

75-85	1 coat of Resuprime MVT at 200 µm per coat
85-92	2 coats of Resuprime MVT at 200 µm per coat
92-97	3 coats of Resuprime MVT at 200 µm per coat

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

#### APPLICATION CONDITIONS

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 the installation.

*See Sherwin-Williams Resufloor Topcoat System Guides for recommended floor systems.*

#### MIXING AND APPLICATION

Mix the entire contents of the **Resufloor HB** Base with the **Resufloor HB** Hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two to three minutes until the two components are fully combined.

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.

<b>Category Guide:</b>	FerFA Category 2
<b>Bond Strength:</b> (BS EN 13892-8:2002)	>3 N/mm <sup>2</sup> (Substrate failure)
<b>Temperature Resistance:</b>	Tolerant of temperatures up to 60°C
	Class II
<b>Impact Resistance:</b> (BS EN 1504-2:2004)	
<b>Abrasion Resistance:</b> (ASTM D4060)	140mg loss per 1000 cycles
<b>Reaction to Fire:</b> (BS EN 13501-1:2018)	Bfl-s1
<b>Compressive Strength:</b> (BS EN ISO 604:2003)	9.6 MPa
<b>Flexural Strength:</b> (ISO 178:2010)	3.2 N/mm <sup>2</sup>
<b>Tensile Strength:</b> (BS EN ISO 527-2:2012)	3.6 MPa

**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 Product Health and Safety Datasheet for information on safe storage, handling and application of this product.*

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