New Guard Coatings Group

A global reputation to protect.

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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.

PROTECTIVE & MARINE COATINGS

Resupen WB
PRODUCT TECHNICAL DATA

PRODUCT DESCRIPTION

Resupen WB is a UV stable water-based polyurethane floor and wall finish for application onto concrete, plaster and wood or as a sealcoat on Sherwin-Williams flooring systems. Resupen WB is available in Colour or Clear options and is fast drying, abrasion resistant and offers excellent chemical resistance. It can be used on both floors and walls to produce seamless hygienic surfaces in either a Standard grade with a satin finish or Matt grade for a full matt finish.

ADVANTAGES

- Excellent chemical resistance
- No VOC's
- Skydrol & Hyjet resistant
- UV Stable
- Easy to clean
- Resistant to hot water

RECOMMENDED USE

- Laboratories
- Automotive and aviation areas
- Prisons and police cells
- Medical and healthcare
- Pharmaceutical areas
- Food factories and beverage areas

PRODUCT DATA

Volume Solids:	40% for colours 31% for clear
VOC:	<10 g/l calculated per full mixed unit for colours (42g/l for clear)
Colours:	Please refer to Sherwin-Williams flooring colour chart
Finish:	Satin or Matt
Flash Point:	N/A
Cleanser/Thinner:	5% water by volume for clear 8% water by volume for colour
Pack Size:	5 litres
Pack Weights:	Colour Std. Satin & Matt versions 5.52 kg base/0.86 kg hardener (5 litres) Clear Std 4.49 kg base/0.74 kg hardener (5 litres) Clear Matt 4.91 kg base/0.74 kg hardener (5 litres)
Mixing Ratio:	Approx 6.5 parts base to 1 part hardener by weight only (colours) Approx 6 parts base to 1 part hardener by weight only (clear)
Mixed Density:	Approximately 1.20 g/cm^3 (colours) Approximately 1.05 g/cm^3 (clear)
Shelf Life:	24 months (Base) and 12 months(Hardener) in unopened containers

Application at 20°C

Recoating Intervals:	6-8 hours or once surface has lost tackiness
Light Traffic:	12 - 16 hours
Full Traffic:	48 hours
Full Chemical Cure	7 days
Pot Life:	Up to 60 minutes from mixing, based on 5 kg pack size

*Water based coatings may stay liquid for longer than specified pot life but it is recommended to use all mixed paint within the pot life time frame. Application after pot life may affect the cure properties such as gloss and adhesion.

Coverage Rate: (Theoretical)	5 litres will cover 50 m² @ 100 µm WFT

*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)	100 – 150 µm WFT 40 – 60 µm DFT (colours) 31 – 47 µm DFT (clear)

*The suggested thickness range is calculated based on the average volume solids as a general recommendation. As a result it may vary slightly for each application.

Recommended Application Methods:	Brush, roller or squeegee
Storage:	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C

Resupen WB

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/mm² 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 **Resuscreed PA**. 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.

Resin floor systems: Where **Resupen WB** is used as a topcoat on a new or existing resin floor system the surface should be clean and dry and ideally be lightly abraded/sanded prior to application as it may interfere with the inter-coat adhesion with **Resupen WB.**

Timber/Wooden Floors: Must be clean, sound and dry. Old varnish/topcoat must be removed/sanded prior to application as it may interfere with the inter-coat adhesion with **Resupen WB.**

NOTE: Care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

PRIMER

Resupen WB may be applied direct to concrete or as a seal coat or topcoat to a resin floor system specified in our datasheets where a primer is not required. When applied direct to porous substrates the surface may require priming. Dry surfaces may be primed with **Resuseal WB** or **Resuprime ST**.

Where the Relative Humidity of the substrate exceeds 75% **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 1 coat of RESUPRIME MVT at 200 microns per coat
85-92 2 coats of RESUPRIME MVT at 200 microns per coat
92-97 3 coats of RESUPRIME MVT at 200 microns per coat

MIXING AND APPLICATION

Pre-mix the Part A Base to ensure an even consistency. The addition of up to 5% water for Clear and 8% for Colour to Part A by volume can aid achieving an even finish with no roller marks. Mix the entire contents of the base with the 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 high-speed electric mixer (for colours) or a slow-speed electric mixer (for clear) for approximately three to four minutes until the two components are fully combined. **NOTE:** The coloured product must be thoroughly mixed in order to achieve a smooth, creamy mixture. Once the hardener is added it will appear lumpy in consistency and mixing must continue until the mixture is smooth.

The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas can be rolled in one direction with the roller then being lifted rather than moved back and forwards. This helps to avoid roller marks and ensures even application. It is also important to maintain a wet edge with this product to minimise the risk of roller marks in the cured finish.

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.

NOTE: 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.

TECHNICAL INFORMATION

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

Category Guide:	FerFA Category 1 and 2
Temperature Resistance:	Tolerant of temperatures up to 60°C
Abrasion Resistance: (BS 8204-2:2003+A2:2011)	130.6 mg loss per 1000 cycles
Impact Resistance: (BS EN 1504-2:2004)	Class I
Fire Classification: (BS EN 13502-1:2018)	Bfl-s1
Tensile Strength: (BS EN ISO 527-2:2012)	16.4 MPa
Chemical Resistance: (EN 13529:2003)	Excellent – consult Sherwin-Williams for further information

WARRANTY	DISCLAIMER
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.*	*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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