



New Guard Coatings Group

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**PROTECTIVE
&
MARINE
COATINGS**

Revised 10/2021 Issue 4 – REF: DEST

**Resudeck ST
PRODUCT TECHNICAL DATA**

PRODUCT DESCRIPTION

Resudeck ST is a two-pack, high build, hard wearing polyurethane floor coating providing a tough flexible finish with resistance to chemical attack. Resudeck ST is suitable for wet environments and is resistant to hot water. By incorporating suitable aggregates, anti-slip finishes can be created with a range of thicknesses and textures.

ADVANTAGES

- High-build finish
- Flexible
- Hygienic and easily cleaned
- Excellent slip resistance with addition of aggregates
- Ease of application
- Excellent high gloss finish
- Low odour
- Very low VOC content
- Solvent free

RECOMMENDED USE

- Mezzanine areas
- Food processing and beverage areas
- Plant rooms
- Aviation and automotive areas
- Internal car park decks
- Factory units
- Asphalt areas
- Excellent for all demarcation and walkways

PRODUCT DATA

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| <p>Volume Solids: ~100%</p> <p>VOC: <1 g/l calculated per full mixed unit</p> <p>Colours: Red, Dark Blue, Mid Blue, Mid Green, Dark Grey, Mid Grey, Light Grey, Black</p> <p>Finish: Smooth gloss</p> <p>Flash Point: N/A</p> <p>Cleanser/Thinner: Thinning not recommended</p> <p>Pack Size: 6.28kg & 18.84kg</p> <p>Pack Weights: 4.80kg (base)/1.48kg (hardener) 14.40kg (base)/4.44kg (hardener)</p> <p>Mixing Ratio: 3.2 parts base to 1 part hardener by weight only</p> <p>Mixed Density: Approximately 1.25 g/cm³</p> <p>Shelf Life: 36 months (Base) & 12 months (hardener) when stored in unopened containers</p> <p>Storage: Keep out of direct sunlight. Store in a dry place, between 15°C – 20°C</p> <p>Recommended Application Methods: Brush, roller or squeegee</p> | <p>Application at 20°C</p> <p>Recoating Intervals: 6 – 8 hours or once surface has lost tackiness</p> <p>Light Traffic: 6 – 8 hours</p> <p>Full Traffic: 24 – 48 hours</p> <p>Full Chemical Cure 7 days</p> <p>Pot Life: 20 minutes from mixing, based on 6.28 kg pack size <i>The pot life may be shorter for larger pack sizes if the product is not used within the pot life limit.</i> Note: All mixed product must be used within the pot lifetime, if the product is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.</p> <p>Coverage Rate: 6.28 kg will cover 25 m² @ 200 µm WFT (Theoretical) <i>Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.</i></p> <p>System Thickness: (Recommended) 200 – 500 µm <i>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.</i></p> |
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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 **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 **Resudeck ST** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

| PRIMING | APPLICATION CONDITIONS | | | | | | | | | | | | | | |
|---|---|----------------------------|------------|---|----------------------------|---|--|---|--|--|---------|---|--------|-----------------------------|---|
| <p>See Sherwin-Williams System Sheets for recommended floor systems.</p> <p>Open and porous substrates may require priming with Resuseal WB, also Resuprime ST may be used as primer on the dry substrates only with less than 75% ERH reading.</p> <p>Where the Relative Humidity of a substrate exceeds 75% ERH Resuprime MVT should be specified. Please refer to the table below for required number of coats to achieve proper moisture tolerance.</p> <table border="1"> <thead> <tr> <th>ERH%</th> <th>Required Coating Thickness</th> </tr> </thead> <tbody> <tr> <td>75-85</td> <td>1 coat of Resuprime MVT at 200 µm per coat</td> </tr> <tr> <td>85-92</td> <td>2 coats of Resuprime MVT at 200 µm per coat</td> </tr> <tr> <td>92-97</td> <td>3 coats of Resuprime MVT at 200 µm per coat</td> </tr> </tbody> </table> <p><i>For further information please refer to recommended individual product data sheets.</i></p> | 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 | <p>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.</p> <p>Note: Resudeck ST is not UV stable and will yellow over time. This is a surface discolouration under the effect of UV light and does not effect the durability of the finish. Darker colours will not show this effect as much as lighter colours.</p> | | | | | | |
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| APPLICATION | TECHNICAL INFORMATION | | | | | | | | | | | | | | |
| <p>Mixing: 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 slow speed electric mixer for approximately two to three minutes until the two components are fully combined.</p> <p>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.</p> | <p>The following figures are obtained from laboratory tests and our experience with this product.</p> <table border="0"> <tr> <td>FeRFA Category:</td> <td>Category 2</td> </tr> <tr> <td>Abrasion Resistance: (ASTM D4060)</td> <td>125mg loss per 1000 cycles</td> </tr> <tr> <td>Bond Strength: (BS EN 13892-8:2002)</td> <td>>3 N/mm² (Substrate failure)</td> </tr> <tr> <td>Temperature Resistance:</td> <td>Tolerant of temperatures up to 60°C</td> </tr> <tr> <td>Impact Resistance: (BS EN 1504-2:2004)</td> <td>Class I</td> </tr> <tr> <td>Reaction to Fire: (EN 13501-1:2018)</td> <td>Bfl-s1</td> </tr> <tr> <td>Chemical Resistance:</td> <td>Excellent – consult Sherwin-Williams for specific materials</td> </tr> </table> | FeRFA Category: | Category 2 | Abrasion Resistance: (ASTM D4060) | 125mg loss per 1000 cycles | Bond Strength: (BS EN 13892-8:2002) | >3 N/mm ² (Substrate failure) | Temperature Resistance: | Tolerant of temperatures up to 60°C | Impact Resistance: (BS EN 1504-2:2004) | Class I | Reaction to Fire: (EN 13501-1:2018) | Bfl-s1 | Chemical Resistance: | Excellent – consult Sherwin-Williams for specific materials |
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| Chemical Resistance: | Excellent – consult Sherwin-Williams for specific materials | | | | | | | | | | | | | | |
| WARRANTY | DISCLAIMER | | | | | | | | | | | | | | |
| <p><i>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.</i></p> <p><i>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.</i></p> | <p><i>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.</i></p> | | | | | | | | | | | | | | |

HEALTH AND SAFETY

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

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