



Resubind UV

Revised 05/2018 Issue 1—REF : RSBU

DESCRIPTION

A light stable polyurethane binder system for use with a wide variety of clean and dry aggregates to create stone bound carpet systems. This product is designed to provide a tough and durable surface which is light stable for use in both internal and external applications, including vehicle driveways, and is supplied in two versions—catalysed and non-catalysed. NB :The non-catalysed Resubind UV system must have the catalyst added during the mixing, which can be adjusted to control the speed of cure. The catalyzed version does not require the addition of any catalyst.

ADVANTAGES

- Durable
- Light stable
- Easy to mix and use
- Low viscosity
- Used with a wide variety of decorative stones/aggregates
- Can be laid at a variety of thicknesses
- Compatible with a wide range of substrates

RECOMMENDED USES

- Formation of internal/external stone carpets
- Domestic driveways and walkways
- Decking, horticulture and architectural features
- Vehicle showrooms and lobbies
- Play areas (when used with rubber crumb)
- Sports areas
- Balconies, decks and hallways

PRODUCT INFORMATION

System Thickness (Recommended)	5-20mm (Dependant on aggregate shape and size)
Solids Content by Weight	100% solids by weight
Pack Sizes	1.5 Kg & 6 Kg
Pack Make Up	1 x Base 1 x Hardener 1 x Catalyst (Supplied separately for use with non-catalysed version)
Shelf Life	12 months (Base, Hardener & Catalyst)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	1.5 Kg to 25 Kg aggregate pack will cover 2m ² at 7mm thickness *Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
Pot Life	45-60 Minutes (with catalyst)
Recoating Intervals	Once area is tack free
Light Traffic	3-8 hours
Full Traffic	24 hours
Full Chemical Cure	5 Days



Specification

Product : Resubind UV

Finish : Clear gloss

Recommended thickness range: 5-20mm (aggregate dependant)

Colour : Clear

Products required for this system

Primer : Resuprime NT or R.S. Dampshield on damp surfaces, where required.

System : Resubind UV (with catalyst for non-catalysed version)

Optional Finish Coat: Improved slip resistance may be achieved with the application of a top coat. Please consult Sherwin-Williams.

Preparation

Resubind UV must be laid onto dry surfaces with a temperature <7°C

Internal New Floors: New concrete must be clean, sound and dry and fully cured with surface laitance removed, preferably by vacuum enclosed shotblasting or mechanical grinding. A minimum strength of 25N/mm² is required. For substrates with moisture reading above 75% ERH or above considerations should be given to the use of **R.S. Dampshield** as a barrier coat. **Resuprime NT** may be used on substrate with less than 75% ERH moisture content.

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. Surfaces must be thoroughly rinsed and dried before application of **Resubind UV** finishes.

External Application: All surfaces must be clean, sound and dry at the time of application. Care must be taken to ensure that conditions remain suitable with no rain/condensation for the period of cure. The surface/substrate must be continuous and sound, and of a suitable composition to provide support to the laid surface.

Priming

Open and porous substrates may require priming with **Resuprime NT** which may be used as primer on the dry substrates only with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH **R.S. Dampshield** 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 R.S.DAMPShield at 200 microns per coat
85-92	2 coats of R.S.DAMPShield at 200 microns per coat
92-97	3 coats of R.S.DAMPShield at 200 microns per coat

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

Application

Ensure that all preparation and ground works are completed, and that a suitable surface remains, that is both uniform in density and suitable for the application of the product. Edges/borders should be determined and any supporting battens fixed at the required height to allow for the correct placement of the mixed product.

Only once the site is completely ready, should the base resin and hardener be mixed. (Note, this provides a mixed base with a long pot life >8 hrs. and on larger jobs the mixed resin can then be added to the mixer with the catalyst, for non-catalysed version, and aggregate) The base resin mix, catalyst solution and washed dried aggregates can then be added to the forced action mixer and stirred to thoroughly wet out the aggregate. Normally 1.5 kg of resin is added to 25 kg of 2-5 mm aggregate.

Once mixed the material should be placed swiftly and laid off by trowel, ensuring the product is well compacted and closed up on the surface. NB The degree of closure of the surface is dependant on the nature, shape and grading of the aggregate, and is often open textured.

No solvents should be added to this product. On extended applications, tools should be kept clean with RS Polyurethane Solvent.

Resubind Catalyst Solution: This is supplied as a separate pack which must be used with the non-catalysed resin system to activate and control the speed of cure. This is normally used at between 5 and 10mL per full 1.5Kg mix. The level of addition is to be established on site and will be dependant on the site substrate and materials temperature and conditions at the time of application. It is recommended that only the minimum necessary to achieve the required cure is used, excess will severely affect the working time for the product.

Typically:

5mL per 1.5Kg unit equals a pot life of 30 minutes at 20°C

10mL per 1.5Kg unit equals a pot life of 10 minutes at 20°C

NB: Aggregates used in this system should be washed and dried in a size range of 2-5mm.

Category Guide

FeRFA Category : 4

Technical Information

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

Slip Resistance	Dry > 40—levels dependant on stone size and surface finish
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Method BS7976 pt1-3 2002	Wet Please consult Sherwin-Williams
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The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult Sherwin-Williams.

Temperature Resistance	Tolerant of temperatures up to 50°C when applied at 7mm
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Chemical Resistance	Excellent Chemical Resistance Consult Sherwin-Williams on specific materials
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VOC	<1 g/l Calculated per full mixed unit
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Life Expectancy	3-5 years depending on applied thickness and subjected to traffic according to FeRFA classification. Sherwin-Williams terms and conditions will apply.
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Maintenance and Cleaning

Resubind UV should be cleaned with a regular industrial cleaning regime, after specified full chemical cure time limit, with a floor scrubber utilising **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover, R.S. Fats, Oils & Grease Remover & R.S. Oil Remover**.

All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to the Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

Resubind UV is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by the Sherwin-Williams or its agents is based on the information supplied by the purchaser. Sherwin-Williams cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

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