Resucrete

Revised 05/2018 - Issue 1: REF : CRNT/TS 2017 03

DESCRIPTION

Resucrete is a three-pack, heavy-duty epoxy resin screed, laid from 6mm to 9mm nominal thickness. Resucrete offers excellent chemical resistance, high compressive and flexural strengths and very high impact resistance. Resucrete will withstand aggressive cleaning methods including thermal shock from steam cleaning and high pressure washing.

Resuscrete is available in 2 grades :-

Resucrete 16NT - which features a dark Granite speckled finish

Resucrete TS - which features a White speckled finish

ADVANTAGES

- Excellent adhesion
- High compressive, tensile and flexural strength
- Impervious
- Good slip resistance
- Excellent abrasion and impact resistance
- Low odour
- Excellent chemical resistance

RECOMMENDED USES

- Chemical production and storage
- Engineering and manufacturing facilities
- Pharmaceutical production
- Automotive industry
- Aerospace production areas
- Industrial workshops
- Commercial kitchens

PRODUCT INFORMATION

System Thickness (Recommended)	6-9mm
Solids Content by Weight	98%
Pack Sizes	17 Kg & 34 Kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate (for 17 Kg units) or 2 x Aggregate (for 34 Kg units)
Shelf Life	12 months (Base, Hardener & Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place, between 15°C- 30°C

APPLICATION INFORMATION at 20°C

Coverage Rate (Practical)	17 Kg will cover 1.28 m^2 at 6mm or 0.85 m^2 at 9mm * Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.
Pot Life	30 Minutes
Recoating Intervals	For Seal Coats, 12 - 16 Hours
Light Traffic	12-16 hours
Full Traffic	72 hours
Full Chemical Cure	7 days

Specification

Product : Resucrete

Finish : Textured finish

Recommended thickness range : 6mm to 9mm

Colour : Limited colour range, consult Sherwin-Williams

Products required for this system

Prime : Resuseal WB or Resuprime NT on dry substrates, or use R.S. Dampshield on damp surfaces where required

System : Resucrete

Surface Seal : Not required. Optional seal coats include Resupen WB (For matt finishes) or Resutile (For increased chemical resistance)

Preparation

New concrete Floors: Must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and make sure all residue detergent is washed and removed by rinsing with clean water.

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 existing floor coating.

Where overcoating other systems such as epoxy coatings or screeds, as part of a specified composite system in the data sheets, please follow the recoat time as stated in the individual data sheets, the coating in each stage should be tack free, but not fully cured. If fully cured then mechanical preparation is required to ensure intercoat adhesion.

Priming

Open and porous substrates may require priming with **Resuseal WB**, also **Resuprime NT** may be used as primer on 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

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 installation.

Mixing: Pre-mix the coloured base component to a uniform consistency (N.B. base will appear gelled in the tin but will become fluid with mixing) then 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. Add the aggregate component slowly whilst mixing. Mix using an electric mixer for approximately two to three minutes until the three components have fully combined. For larger units a forced action mixer may be required to fully combine the aggregate into the resins.

Resucrete should be worked with a trowel or float to achieve a dense, compacted finish. This is best achieved by the application of smooth even pressure in one direction, gradually increasing the pressure as the material compacts and beds down. Over-working the material will draw fines to the surface which may result in resin-rich spots and finish variations.

Category Guide

FeRFA Category : 8

Technical Information

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

Slip Resistance	Dry > 60
Method BS7976 pt1-3 2002	Wet Please consult Sherwin-Williams

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.

Abrasion Resistance Method BS EN 13892-5	AR 0.5
Temperature Resistance	Tolerant of temperatures up to 60°C
Chemical Resistance	Excellent chemical resistance Consult Sherwin-Williams on specific materials
Compressive Strength	114N/mm^2 (16NT only)
Flexural Strength	30N/mm^2
Tensile Strength	24N/mm^2
VOC	49 g/l Calculation based on a full mixed unit
Life Expectancy	Up to 10 years Subjected to Industrial Traffic Sherwin-Williams terms and conditions will apply.

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BSEN 13813 SR B 3.5 - AR 0.5 - IR>4
Resin coating/screed for use inside buildings as per data sheet

Wear resistance:	AR 0.5
Bond strength:	B 3.5
Impact resistance:	IR > 4

Maintenance and Cleaning

Sherwin-Williams recommend that **Resucrete** should be cleaned with a regular industrial cleaning regime 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 and 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

Resucrete 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.

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