



# Resustat Terrazzo

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## DESCRIPTION

Resustat Terrazzo is a static-dissipative decorative terrazzo effect seamless floor finish produced from high strength granite aggregates and water based polyurethane resin. Resustat Terrazzo decorative surfaces meet the static-dissipative performance requirements of BS EN 61340 with an electrical conductivity leakage resistance of  $<10^9$  ohms. The system is stable to steam cleaning and resistant to boiling water and process liquids.

## ADVANTAGES

- High chemical resistance
- Resistance to hot water and steam
- Extremely hard wearing
- Static dissipative decorative finish
- Excellent slip resistant finish
- Hygienic
- Excellent abrasion and impact resistance

## RECOMMENDED USES

- Pharmaceutical production
- Retail outlets
- Corridors
- Chemical plant processing
- Abbatoirs
- Heavy duty plant and traffic areas
- Food manufacture and processing

## PRODUCT INFORMATION

<b>System Thickness (Recommended)</b>	6mm to 8mm
<b>Solids Content</b>	100% solids by weight
<b>Pack Sizes</b>	35 kg
<b>Pack Make Up</b>	1 x Base 1 x Hardener 1 x Powder Aggregate 1 x Conductive Aggregate Pot 1 x Granite Aggregate
<b>Shelf Life</b>	36 months (Base & Granite Aggregate), 12 Months (Hardener & Conductive Aggregate) 6 months (Powder Aggregate)
<b>Storage</b>	Keep out of direct sunlight. Store in a dry place between 15°C—30°C. Powder Aggregate should be stored in a dry area to prevent contamination from moisture, as this would have a detrimental effect on the product.

## APPLICATION INFORMATION at 20°C

<b>Coverage Rate (Theoretical)</b>	35 kg will cover 2m <sup>2</sup> at 8mm thickness which is then ground back to 6mm.
<b>Pot Life</b>	15 minutes
<b>Recoating Intervals</b>	6-8 hours
<b>First Grind</b>	16-24 hours
<b>Wet Polish</b>	16-24 hours after grouting
<b>Full Chemical Cure</b>	5 days



## Specification

**Product :** Resustat Terrazzo

**Finish :** Smooth matt or gloss (after polishing)

**Recommended thickness range :** 6mm to 8mm

**Colour :** Limited colour range, consult Sherwin-Williams

### Products required for this system

**Primer :** Resuprime NT or R.S. Dampshield on damp surfaces, where required. Followed by Resustat Primer.

**System :** Resustat Terrazzo

## 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, scaring or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and make sure all residue of 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.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 20mm deep by 10mm wide. These should be inset approximately 150mm from, and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge, i.e. both sides of a day work joint. The groove must have a neat square edge and the **Resustat Terrazzo** laid to the full depth forming a perimeter anchorage.

## Priming

Open and porous substrates will require priming with **Resuprime NT** 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.DAMP SHIELD at 200 microns per coat
85-92	2 coats of R.S.DAMP SHIELD at 200 microns per coat
92-97	3 coats of R.S.DAMP SHIELD at 200 microns per coat

Following the application of the **Resuprime NT** or **R.S. Dampshield**, copper tape strips are laid to form a grid system where the grids are no larger than 2m x 2m. The copper tape should be left exposed in areas to allow them to be earthed properly. Onto this a coat of **Resustat Primer** is applied to provide a fully conductive layer under the **Resustat Terrazzo**. It is important to take a conductive reading of the cured **Resustat Primer** before applying the **Resustat Terrazzo**.

## Application

**Resustat Terrazzo** may be applied to substrates with a surface temperature in the range of 5-20°C and a relative humidity < 90% RH, with a minimum air temperature of 8°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm.

When the primed surface is tack free **Resustat Terrazzo** should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and add to application problems). Mix the coloured base component to an even consistency, ensuring the re-dispersion of any settled pigment. Thoroughly scrape the contents of the base and hardener components into the same container and mix thoroughly for one minute. Pour the combined base and hardener into a rotary drum mixer and add the powder aggregate component steadily followed by the granite aggregate and then the conductive aggregate, until a homogeneous mix of the three components is achieved.

Apply to pre-primed areas and level between battens as necessary with a steel float, alternatively a sledge can be used set at the required thickness and again finished with a steel float. **Resustat Terrazzo** is usually grouted with **Resuthane T100** once it has had its first grind. Once wet polished, the **Resustat Terrazzo** can be sealed using a generic anti-static floor polish where required.

## Category Guide

FeRFA Category : 8

## Technical Information

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

Slip Resistance Dry >36

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 13892-4

AR 0.5

(Less than 50µ wear)

Temperature Resistance

Tolerant of temperatures of up to 120°C @ 9mm

Chemical Resistance

Excellent chemical Resistance Consult Sherwin-Williams on specific materials

Electrical Resistance

Method: BS EN 61340-4

<10<sup>9</sup> Ohms

(Results will vary slightly with finish and thickness)


VOC

<7 g/l calculated per full mixed unit

Life Expectancy

Up to 10 years Subject to industrial traffic. Sherwin-Williams terms and conditions will apply

N.B. All terrazzo systems, even after grouting, may exhibit small surface defects due to the nature of the grinding techniques. These are not detrimental to the overall aesthetics and performance of the floor.

	
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<b>BSEN 13813 SR B 3.1-AR 1 -IR&gt;4</b> Resin coating/screed for use inside buildings as per data sheet	
Wear resistance:	AR 1
Bond strength:	B 3.3
Impact resistance:	IR > 4

## Maintenance and Cleaning

Sherwin-Williams recommend that **Resustat Terrazzo** 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 & 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

**Resustat Terrazzo** 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 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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