Resustat TG69

Revised 05/2018—Issue 1 : REF : TGAS 2016

DESCRIPTION

Resustat TG69 is a static-dissipative resin based flooring system which is laid at 6-9mm nominal thickness. The formulation comprises of a unique blend of conductive fillers blended with polyurethane resin components & pigments to provide an attractive smooth Matt finish. The Resustat TG69 flooring system has an electrical conductivity leakage resistance of $<10^9$ohms when tested to BS EN 61340.

ADVANTAGES

- High chemical resistance
- Resistance to hot water
- Ease of application
- Static dissipative seamless matt finish
- Hard wearing durable floor for industrial use
- Hygienic
- Excellent abrasion and impact resistance

RECOMMENDED USES

- Pharmaceutical production
- Electronic industrial areas
- Television studios
- Operating theatres
- Chemical plants
- Domestic studios
- Industrial workshops

PRODUCT INFORMATION

System Thickness (Recommended)	6mm to 9mm
Solids Content	100% solids by weight
Pack Sizes	30 kg
Pack Make Up	1 x Base 1 x Hardener 1 x Aggregate 1 x Conductive Aggregate Pot
Shelf Life	12 months (Base, Hardener & Conductive Aggregate) 6 months (Aggregate)
Storage	Keep out of direct sunlight. Store in a dry place between 15°C—30°C. 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

Coverage Rate (Theoretical)	30 kg will cover 2.5m^2 at 6mm thickness or 1.7m^2 at 9mm thickness.
Pot Life	15 minutes
Recoating Intervals	N/A
Light Traffic	12 - 16 hours
Full Traffic	48 hours
Full Chemical Cure	5 - 7 days

Specification

Product : Resustat TG69

Finish : Smooth, Matt

Recommended thickness range : 6mm to 9mm

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 TG69

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 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 TG69** 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	1coat of R.S.DAMPSHIELD at 200 microns per coat
85-92	2coats of R.S.DAMPSHIELD at 200 microns per coat
92-97	3coats of R.S.DAMPSHIELD 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 TG69**. It is important to take a conductive reading of the cured **Resustat Primer** before applying the **Resustat TG69**.

Application

Resustat TG69 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 TG69** 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 aggregate component steadily followed by 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.. Where ease of cleaning is very important alongside slip resistance the final finish can be smoothed by back rolling with a short nap roller. A single pass with the weight of the roller is usually sufficient.

Category Guide

FeRFA Category : 8

Technical Information

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

Slip Resistance Method BS7976 pt1-3 2002	Dry >50 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
Compressive Strength	60 N/mm^2
Flexural Strength	14 N/mm^2
Tensile Strength	6 N/mm^2
Electrical Resistance Method: BS EN 61340-4	<10^9 Ohms (Results will vary slightly with finish and thickness)
VOC	<9 g/l calculated per full mixed unit
Life Expectancy	Up to 10 years Subject to industrial traffic. Sherwin-Williams terms and conditions will apply

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BSEN 13813 SR B 3.1- AR 1 - IR>4
Resin coating/screed for use inside buildings as per data sheet

Wear resistance:	AR 0.5
Bond strength:	B 3.3
Impact resistance:	IR > 4

Maintenance and Cleaning

Sherwin-Williams recommend that **Resustat TG69** 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 TG69 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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