



A **SHERWIN-WILLIAMS** Company



REF : RESM 2016 06

# Resustat ESM

## DESCRIPTION

Resustat ESM is a static-dissipative resin based flooring system which is installed at 3 mm nominal thickness. The formulation comprises of a unique blend of conductive fillers blended with selected epoxy resin components & pigments to provide an attractive and decorative finish.

The Resustat ESM flooring system has an electrical conductivity leakage resistance  $<10^9$  ohms when tested to BS EN 61340.

## ADVANTAGES

- Static-dissipative seamless finish
- Hard wearing durable floor for industrial use
- Ease of application
- Hygienic
- Decorative - available in an attractive range of colours
- Excellent abrasion and impact resistance
- Good chemical resistance
- Smooth finish for precise operating

## RECOMMENDED USES

- Pharmaceutical production
- Electronic industrial areas
- Explosive factories
- Television studios
- Operating theaters
- Chemical plants
- Domestic studios

## PRODUCT INFORMATION

System Thickness (dry)	Solids Content	Pack Size	Pack Make Up	Shelf life	Storage
3 mm	100%	30 kg.	30 kg. - 1 X Base 1 X Hardener 1 X Aggregate bag	12 Months (Base & Activator) 12 Months ( Aggregate)	Keep out of direct sunlight. Store in a dry place, not below 15°C

## DRYING TIMES & COVERAGE RATES at 20°C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
5 sq m per 28 kg. unit @ 3mm thickness	Including Aggregate 30 Mins	n/a	24 Hours	72 Hours	7 Days



## Specification

Product : Resustat ESM

Finish : Smooth coloured profile

Thickness : 3 mm

Colour : Available in a Range Colours

## Products required for this system

Prime : Resustat Primer

System : Resustat ESM at 3mm

Surface Seal : Not Required

## Preparation

To achieve the best performance from **Resustat ESM** the correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25N/mm<sup>2</sup>. All surfaces must be prepared by vacuum blasting or mechanical abrasion. The ambient temperatures of the areas should not be allowed to fall below 10°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 8°C.

Copper Strips :

In order for antistatic systems to function effectively, it is essential that the system connects to electrical earth. Where ground floor slabs are laid direct to earth this is often sufficient. Where floors are not directly in contact, or earthing is poor, then copper strips should be laid onto the floor and connected to form a grid and secured to a suitable earthing point.

## Priming

**Resustat ESM** can be applied onto a cured coat of **Resustat Primer** two-pack solvented epoxy - to be used as a high build single coat conductive primer. Coverage 22 sq.m. per 5 kg. unit. Rough or porous surfaces may require an additional coat of **Resuprime** or **Resuseal WB** which should be allowed to cure before **Resustat Primer** is applied. It is essential the primer coat seals the substrate so no air pockets or cavities remain. Copper tape should be applied to this primer.

If substrates do have moisture levels above 75% RH prime the surface with **R.S.Dampshield** prior to **Resustat Primer** being installed. (number of coats dependent on moisture content).

**IMPORTANT** Take a check reading of the cured primer (<10<sup>9</sup> ohms ) before proceeding.

## Application

**Mixing** : Pre-mix the coloured component to a uniform colour then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used ensure all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately one to two minutes or until the two components have fully combined then add the aggregate bag or bags

The mixed unit should be applied immediately.

**Resustat ESM** should be worked with a trowel or float to achieve an even smooth finish. This is best achieved by the application of smooth even pressure with the compound poured over the correct coverage rate after fixing any stop ends to control the flow of the material.

After 10-20 minutes roll the area with a spiked roller to achieve an even smooth surface and remove entrapped air. Do not re-roll the area later.

The surface should be protected from temperatures of less than 10°C and moisture in the early stages of cure.

## Category Guide

FeRFA Category : 5

## Technical Information

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

Slip Resistance	Dry > 54
Method BS7976 pt1-3 2002	Wet Please consult RSL

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 RSL.


Abrasion Resistance	n/a
Method BS8204 /ASTM D4060	

Temperature Resistance	Tolerant of sustained temperatures of up to 60°C
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Chemical Resistance	Good.
	Consult RSL for Further details

Compressive Strength	> 60 N/mm
Flexural Strength	> 22 N/mm
Tensile Strength	> 18 N/mm
VOC	28 g/l
	Calculation based on a full mixed unit

Life Expectancy	5 years plus
	Subjected to Industrial Traffic

	
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<b>13</b>	
<b>BSEN 13813 SR B 3.4</b> Resin coating/screed for use inside buildings as per RSL data sheet	
Wear resistance:	AR 0.5
Bond strength:	B 3.5
Impact resistance:	IR > 4

## Maintenance and Cleaning

RSL recommend that **Resustat ESM** 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 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 RSL Guide to Cleaning of Resin Floors**

## Health and Safety

**Resustat ESM** 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 Resin Surfaces Limited or its agents is based on the information supplied by the purchaser. Resin Surfaces Limited 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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