



# Resustat Primer

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

## DESCRIPTION

Resustat Primer is a two-pack epoxy primer containing conductive fillers to prime concrete and other substrates prior to the application of static dissipative resin flooring systems.

Resustat Primer has conductivity of less than 0.050 M ohms when tested in accordance with BS EN 61340.

## ADVANTAGES

- Fully conductive with very low electrical resistance
- Easy application
- High solids
- Low odour
- Excellent adhesion

## RECOMMENDED USES

- As a conductive primer for the following Sherwin-Williams static-dissipative flooring systems:
  - Resustat ESM
  - Resustat SL23
  - Resustat TG69
  - Resustat Terrazzo

## PRODUCT INFORMATION

|                                       |  |
|---------------------------------------|--|
| <b>System Thickness (Recommended)</b> | 200-250 microns WFT    174-217 microns DFT<br>*The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application it may vary. |
| <b>Solids Content by Weight</b>       | 88%  |
| <b>Solids Content by Volume</b>       | 87%  |
| <b>Pack Sizes</b>                     | 5 kg   |
| <b>Pack Make Up</b>                   | 1 x Base    1 x Hardener   |
| <b>Shelf Life</b>                     | 36 months (Base & Hardener)  |
| <b>Storage</b>                        | Keep out of direct sunlight. Store in a dry place, between 15°C and 30°C.  |

## APPLICATION INFORMATION at 20°C

|                                    |   |
|------------------------------------|---|
| <b>Coverage Rate (Theoretical)</b> | 5 kg will cover 21.7m <sup>2</sup> at 200 microns WFT<br>* Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions. |
| <b>Pot Life</b>                    | 30 minutes  |
| <b>Recoating Intervals</b>         | 8 hours or once surface has lost tackiness  |
| <b>Light Traffic</b>               | 8-10 hours  |
| <b>Full Traffic</b>                | 72 hours  |
| <b>Full Chemical Cure</b>          | 7 days  |



## Specification

**Product :** Resustat Primer

**Finish :** Semi gloss

**Recommended thickness range :** 200-250µ WFT

**Colour :** Black

## Products required for this system

**Primer :** Resustat Primer

**System :** As per specification

**Surface Seal :** As per specification

## 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, 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. Local repairs should be carried out with **Resupatch** or **Resuscreed 45**.

### 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.

**Resustat Primer** can also be applied to existing coatings and to other cementitious screeds which should be clean and sound with an appropriate mechanical key for adhesion.

## Priming

**Resustat Primer** should be used as a conductive primer only and is normally applied on top of an already primed and sealed surface. The copper tape grid for the earthing should be applied prior to the application of the **Resustat Primer**.

Open and porous substrates will require priming with **Resuseal WB**, also **Resuprime NT** or **Resucoat HB** 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 |

## 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 base component to a uniform consistency then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used for mixing ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two to three minutes until the two components have fully combined.

The mixed unit should be applied immediately by roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

## Copper Tape Grid

In order for the floor to function and dissipate any static build up it must be earthed effectively. This is done with the use of an adhesive copper tape which is applied to the primed substrate prior to the application of the **Resustat Primer**. The tape is run around the outside of the area approximately 150mm from walls and set in a grid in the floor with the grid squares being no larger than 2m x 2m. The room should be earthed at multiple points around the room, with the number varying depending on the size of the area. The copper tape should be run up the walls/columns a short distance to allow it to be earthed following the application of the flooring system. The **Resustat Primer** will form a fully conductive layer on top of the grid.

## Category Guide

FeRFA Category : 2/3

## Technical Information

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

|                           |  |
|---------------------------|--|
| Bond Strength             | 2.8 N/mm <sup>2</sup><br>(Substrate failure) |
| Method BS EN 13892-8:2003 |  |
| Temperature Resistance    | Tolerant of temperatures up to 60°C          |
| VOC                       | 139 g/l calculated per full mixed unit       |
| Life Expectancy           | Dependant on floor system.                   |

## Maintenance and Cleaning

Sherwin-Williams recommend that **Resustat Primer** 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 Primer** 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.