Protective & Marine Coatings
PRODUCT DATA SHEET

RESUPRIME™ ESD

03/2023 Issue 7 – REF: REPR

PRODUCT DESCRIPTION

Resuprime ESD is a two-pack epoxy primer containing conductive fillers used to create a conductive layer underneath Sherwin-Williams static-dissipative flooring systems to allow consistent earthing of electrical charge.

ADVANTAGES

- Excellent adhesion
- Conductive with very low electrical resistance
- High solids
- Low odour
- Ease of application

RECOMMENDED USE

- As a conductive primer for all Sherwin-Williams static-dissipative flooring systems

PRODUCT DATA

Volume Solids: ~100%

VOC: 139 g/l calculated per full mixed unit

Colours: Black

Finish: Textured gloss

Flash Point: N/A

Cleanser/Thinner: 5% by weight of PMA can be added to improve application.

RS Epoxy Solvent can be used for cleaning.

Pack Size: 5 kg

Pack Weights: 3.49 kg base/1.51 kg hardener (5 kg)

Mixing Ratio: 2.3 parts base to 1 part hardener by weight only

Mixed Density: ~1.16 g/cm³

Shelf Life: 36 months (base and hardener)

Storage: Keep out of direct sunlight.
Store in a dry place, between 5°C to 30°C

Recommended Application Methods: Brush or roller.

Typical properties at 20°C

Cure times:

Minimum recoating interval: 6 to 8 hours or once surface has lost tackiness

Light Traffic: 18 to 24 hours

Full Traffic: 48 to 72 hours

Full Chemical Cure: 7 days

Pot Life: 25 to 30 minutes from mixing.

Pot life refers to the usable working life of the material following mixing and immediate application. If product is left in the container after mixing and not used, hazardous fumes may be released due to an exothermic reaction.

Typical Consumption: 0.25 to 0.5 kg/m²
The coverage rate will vary depending on the texture and porosity of the substrate, site conditions, film thickness and method of application.

SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm², a minimum tensile strength of 1.5 N/mm² and a relative humidity at the surface of no more than 75%.

It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment. Grinding or light contained shot-blasting to CSP 1-3, for detailed information, refer to ICRI Guideline No.310.2R-2013, this standard should be used for the thinner synthetic flooring types to ensure that the profile does not reflect in the finish.

After surface preparation, all loose debris and dirt should be removed using vacuum equipment.

Weak concrete must be removed, and local repairs carried out.

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APPLICATION CONDITIONS

The recommended application temperatures of the areas should be kept between 15 - 30°C throughout the application and the curing period, otherwise this could have an adverse effect on the appearance. Surface temperature must be above 10°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation forming.

RECOMMENDED SYSTEMS

Open and porous substrates will require priming.

Resuprime™ ST may be used as primer on dry substrates with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH Resuprime™ MVT or Dampepox may be used, please contact Sherwin-Williams for a specification. For further information please refer to recommended individual product data sheets.

MIXING AND APPLICATION

Materials should be pre-conditioned at 15°C to 25°C prior to use. Mix the entire contents of the base component with the hardener component using a low speed electric mixer (300 to 400 rpm) for 1 to 2 minutes until homogeneous. The mixed unit should be applied immediately after mixing by roller or brush.

Resuprime™ ESD should be applied over the top of a copper tape grid to aid the electrical earthing. Please refer to specific System Sheet for more information.

Note: Application by squeegee is not recommended for this product as there is the potential to damage the copper tape grid.

TECHNICAL INFORMATION

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

Category Guide: FeRFA Type 2

Temperature Resistance: Tolerant of temperatures up to 60°C

Abrasion Resistance: (BS EN ISO 5470-1:2016)	<3000 mg
Capillary Absorption: (BS EN 1062-3:2008)	w < 0.1 kg/m^2.h$^{0.5}$
Impact Resistance: (BS EN 1504-2:2004)	Class I
Adhesion Strength: (BS EN 1542:1999)	> 2.0 N/mm^2

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

HEALTH AND SAFETY

Consult Safety Datasheet for information on safe storage and handling of this product.

Sherwin-Williams UK Limited, Protective & Marine Division
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom.
T: +44 (0)1204 521771 F: +44 (0)1204 382115
W: https://industrial.sherwin-williams.com/emeai/gb/en/resin-flooring.html
Registered in England Reg. No. 2968830 Reg. Office: Station Lane, Witney, Oxfordshire, United Kingdom, OX28 4XR.

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Sherwin Williams Protective & Marine Coatings
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom
Tel: +44 (0) 1204 521771 F: +44 (0) 1204 382115

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EN 1504-2

Surface protection products - Coatings
Principle intended uses - Physical resistance

Reaction to fire : B_{fl}-s1
Abrasion resistance : Weight loss < 3000 mg
Capillary absorption and permeability to water : w < 0.1 kg/m^2.h$^{0.5}$
Impact resistance : Class I (> 4 Nm)
Adhesion strength : ≥ 2.0 N/mm^2 (1.5 N/mm^2)