



# RESUFLOOR™ SCREED HCS

05/2023 Issue 6 – REF: CRNT

## PRODUCT DESCRIPTION

Resufloor™ Screed HCS is a three-pack, heavy-duty epoxy resin screed.

### ADVANTAGES

- Excellent adhesion
- High compressive strength
- High tensile and flexural strength
- Impervious
- Impact and abrasion resistant
- Low odour
- Can be used to form coving and falls

### RECOMMENDED USE

A wide range of industrial applications such as:

- Chemical production and storage
- Engineering and manufacturing facilities
- Pharmaceutical production
- Automotive industry
- Aerospace production areas
- Industrial workshops
- Commercial kitchens

## PRODUCT DATA

**Volume Solids:** ~100%

**VOC:** <50 g/l calculated per full mixed unit

**Colours:** Mid Grey, Dark Grey and Red

**Finish:** Smooth screed

**Flash Point:** N/A

**Cleanser/Thinner:** Do not thin  
Cleaning only with RS Epoxy Solvent

**Pack Size:** 25kg

**Pack Weights:** 2.6 kg Base / 1.1 kg Hardener / 21.3 kg Aggregate

**Mixing Ratio:** 2.2 parts base to 1 part hardener to 18.8 parts aggregate  
by weight only

**Mixed Density:** ~2.2 g/cm<sup>3</sup>

**Shelf Life:** 36 months (base and aggregate) & 24 months (hardener)  
when stored in unopened containers

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

**Recommended Application Methods:** Trowel or Float

### Typical Properties at 20°C

#### Cure Times

Minimum overcoating time: 12 to 16 hours

Light Traffic: 12 to 16 hours

Full Traffic: 24 to 36 hours

Full Chemical Cure: 7 to 10 days

**Pot Life:** 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:** 2.2kg/m<sup>2</sup> per mm thickness

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/mm<sup>2</sup>, a minimum tensile strength of 1.5 N/mm<sup>2</sup> 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. Contained shot-blasting, planning or scarifying to CSP 4-6, for detailed information, refer to ICRI Guideline No.310.2R-2013.

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 and colour of the system.

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 should be primed with one or two coats of primer to ensure a sealed surface.

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 Dampexox may be used, please contact Sherwin-Williams for a specification.

For further information please refer to recommended individual product data sheets.

## MIXING AND APPLICATION

### Mixing:

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 - 400 rpm) for 1 - 2 minutes until homogeneous. Pour the mixture into a rotary drum mixer and add the aggregate component steadily, mixing for a minimum of 3 minutes until a homogeneous mix is obtained.

The mixed unit should be applied immediately after mixing.

### Application:

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.

Resufloor™ Screed HCS should be worked with a trowel or float to achieve a dense, compacted finish. This is best achieved by gradually increasing pressure as the material compacts and beds down. Over-working the material may draw excess resin to the surface resulting in colour and surface texture variations.

Coving can be formed in advance of the floor laying process or at the same time. Where laid in advance a join may be visible between the cove and floor.

## TECHNICAL INFORMATION

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

**Category Guide:** FeRFA Type 8

**Bond Strength:** >3 N/mm<sup>2</sup> (Substrate failure)  
(BS EN 13892-8:2002)

**Impact Resistance:** Class II  
(BS EN 1504-2:2004)

**Abrasion Resistance:** AR 0.5 (Less than 50 µm wear)  
(BS EN 13892-4:2004)

**Compressive Strength:** >114 N/mm<sup>2</sup>  
(BS 6319-2:1983)

**Flexural Strength:** 30.8 MPa  
(BS 2782-10 Method 1005:1977)

**Tensile Strength:** 26.2 MPa  
(BS 2782-10 Method 1003:1977)

**Reaction to Fire:** Bfl-s1  
(BS EN 13501-1:2018)

## 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.

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**Protective & Marine Coatings**  
PRODUCT DATA SHEET

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Sherwin Williams Protective & Marine Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom. <b>13</b>	
<b>BS EN 13813 SR B3.5-AR0.5-IR&gt;4</b> <small>Resin coating/screed for use inside buildings as per data sheet</small>	
<b>Wear resistance</b>	AR 0.5
<b>Bond strength</b>	B 3.5
<b>Impact resistance</b>	IR > 4