



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## RS Dampshield Data Sheet

### Specification notes

Product: **RS Dampshield**

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# R.S. Dampshield

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## DESCRIPTION

R.S. Dampshield is a two-component epoxy resin primer that is tolerant of residual moisture in concrete floors. This enables earlier access onto new concrete substrates for the application of screeds, coatings and other floor coverings including carpets, tiles, vinyl and wood.

R.S. Dampshield is also used for existing concrete slabs where there is no damp proof membrane or where a degree of moisture tolerance is required for a resin floor system being installed.

## ADVANTAGES

- Easy application
- Application onto substrates with hygrometer readings up to 97%
- Solvent-free
- Low odour
- Excellent adhesion

## RECOMMENDED USES

- Concretes with no DPM
- Where a DPM is ineffective
- Polymer screeds
- Cementitious underlayments

## PRODUCT INFORMATION

<b>System Thickness (Recommended)</b>	200 microns DFT
<b>Solids Content</b>	100% solids by weight
<b>Pack Sizes</b>	5 kg & 15 kg
<b>Pack Make Up</b>	1 x Base 1 x Hardener
<b>Shelf Life</b>	12 months (Base & Hardener)
<b>Storage</b>	Keep out of direct sunlight. Store in a dry place, not below 15°C.

## APPLICATION INFORMATION at 20°C

<b>Coverage Rate (Theoretical)</b>	5 kg will cover 23m <sup>2</sup> at 200 microns WFT <small>* Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.</small>
<b>Pot Life</b>	30 minutes
<b>Recoating Intervals</b>	8 hours or once surface has lost tackiness
<b>Light Traffic</b>	24 hours
<b>Full Traffic</b>	72 hours
<b>Full Chemical Cure</b>	7 days



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## Specification

**Product :** R.S. Dampshield

**Finish :** Semi gloss

**Recommended thickness range :** 200-250 microns

**Colour :** Clear

## Products required for this system

**Primer :** R.S. Dampshield

**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.

**R.S. Dampshield** 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

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

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

## 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 squeegee, roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

Coverage rates may vary depending on profile and porosity of the substrate.

## Category Guide

FerFA Category : 2

## Technical Information

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

Bond Strength	3.3 N/mm <sup>2</sup> (Substrate failure)
Method BS EN 13892-8:2003	
Temperature Resistance	Tolerant of temperatures up to 60°C
VOC	84 g/l calculated per full mixed unit
Life Expectancy	Dependant on floor system.

## Maintenance and Cleaning

Sherwin-Williams recommend that **R.S. Dampshield** 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

**R.S. Dampshield** 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.