

# *R.S. Dampshield*

*Epoxy resin damp-proof membrane*



RESIN SURFACES LIMITED

## Product Data Sheet

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### **DESCRIPTION**

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

### **WHERE TO USE**

R.S. DAMPSHIELD can be used on concrete floors and fine concrete screeds, of not less than 50mm thick, in the case of unbonded screeds. The surface must be of sufficient quality, continuity and mechanical strength to ensure even coating.

The product may also be applied to polymers, screeds and certain types of smoothing underlayments, provided these are well bonded. Such underlayments must be stable to the effects of water. If not the concrete floor must contain an integral damp-proof membrane to prevent further ingress of water from the ground.

Where laid onto a concrete surface where there is no DPM or where damage may have rendered the DPM ineffective due consideration must be given to the possible presence of hydrostatic pressure, and the consequences of creating a barrier layer resulting in the pressure /water flow being directed elsewhere.

### **ADVANTAGES**

1. Enables resin finishes etc. to be applied onto new concrete much sooner than the normal time required for concrete to dry.
2. Easily applied by brush, roller or trowel edge.
3. Can be applied onto substrates with hygrometer readings up to 97% RH.
4. Solvent free and low odour.

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## **CHEMICAL RESISTANCE**

R.S. DAMPSHIELD has good resistance to mild chemical attack but is designed to be overcoated with other resin finishes.

## **PHYSICAL PROPERTIES AT 20°C**

### **Coverage**

20m<sup>2</sup> per 5kg unit at 230 microns dry film thickness

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### **Volume solids**

100 %

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### **Density mixed**

1.05

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### **Over-coating time**

Allow 10 hours at 20°C

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### **Application temperature limits**

5 – 30°C

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### **Shelf life**

1 year in unopened containers

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### **Storage**

Store between 5- 30°C

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## **SPECIFICATION**

The system is 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.

<u>Relative Humidity Reading %</u>	<u>Coating Thickness</u>
75-85.1	1 coat of R.S. DAMPSHIELD at 250 microns
85-92	2 coats of R.S. DAMPSHIELD at 250 microns per coat
92-97	3 coats of R.S. DAMPSHIELD at 250 microns per coat

## **PREPARATION**

Concrete surfaces must be prepared by scarifying, vacuum shot-blasting, planing or other suitable method. All traces of concrete hardeners or other contaminants must be removed. The surface must be thoroughly vacuumed to remove concrete dust and then protected against further contamination by suitable means. Surfaces must be free from liquid water and atmosphere must not be condensing.

## **APPLICATION**

Mix the contents of the hardener component with the base, using a slow speed power stirrer. Apply the mixed material with a lambswool roller. Where multiple coats are required, the system should be built up, allowing not less than 12 and not more than 48 hours between coats. Further applications of the topcoat, screed, self smoothing epoxy or other floor covering may then be made.

## **CLEANING**

Do not allow R.S. DAMPSHIELD to set on tools. Clean with R.S. EPOXY SOLVENT.

## **HYGIENE**

R.S. DAMPSHIELD is manufactured from resins and hardeners which are normally safe to use. However, it is not advisable to allow them to set on the skin and use of barrier cream and polythene gloves is recommended. After finishing, wash hands with plenty of soap and water.

## **Consult Safety Data Sheet Ref. HSDA**

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 the company 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 undertaking can be given against infringement of patents.