



# *ECF. Dampshield*

*Epoxy resin damp-proof membrane*

## Product Data Sheet

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### **DESCRIPTION**

ECF 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**

ECF 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

ECF 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

### Volume solids

100 %

### Density mixed

1.05

### Over-coating time

Allow 10 hours at 20°C

### Application temperature limits

5 – 30°C

### Shelf life

1 year in unopened containers

### Storage

Store between 5- 30°C

## 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.

Relative Humidity Reading %	Coating Thickness
75-85.1	1 coat of ECF DAMPSHIELD at 250 microns
85-92	2 coats of ECF DAMPSHIELD at 250 microns per coat
92-97	3 coats of ECF 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 ECF DAMPSHIELD to set on tools. Clean with ECF EPOXY SOLVENT.

## HYGIENE

ECF 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

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