

# Epoxy Resin Damp Proof Membrane

## Description

Epoxy Resin Damp Proof Membrane is a two-component, solvent free, low odour epoxy resin membrane that is tolerant of residual moisture in concrete floors. Once cured Epoxy Damp Proof Membrane creates a new surface damp proof membrane which enables earlier access onto the floor for the application of screeds, coatings and other floor coverings including tiles, vinyl, wood and carpets. It has good chemical resistance to mild chemical attack but is designed to be over-coated with other chemical resistant resin finishes when used in this environment.

Liquid Epoxy DPM can be used on concrete floors and fine concrete screeds, of not less than 50mm thick in the case of un-bonded screeds. The surface should be of sufficient quality and mechanical strength to ensure an even coating.

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

Where the product is laid onto a concrete surface where there is no damp proof membrane or where damage may have rendered the damp proof membrane ineffective you should give due consideration to the possible presence of hydrostatic pressure and the consequences of creating a barrier layer resulting in the pressure/water flow being directed elsewhere.

## Product Benefits

- Easy Application
- Solvent Free
- Low Odour
- Application onto surfaces with hygrometer readings of up to 97%

## Application Areas

Epoxy Resin Damp Proof Membrane is suitable for use on concrete/ polymer screeds where the original damp proof membrane has either become damaged, is ineffective or is not present.

## Preparation

**New Concrete Floors:** New concrete must be clean, sound, dry and fully cured and surface laitance removed preferably by 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 or other surface contaminants by enclosed shot blasting, scarification or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing. Local repairs should be carried out using floor repair compounds.

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 the atmosphere must not be condensing.

Epoxy Resin Damp Proof Membrane 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.

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.

RH Reading %	Required Coating	Thickness/ coat
75-92	2 coats	200 microns
92-97	3 coats	200 microns

## Application

The ambient temperatures of the areas should not be allowed to fall below 10°C throughout the application and the curing period, as this could have an adverse effect on the system. Surface temperature must be above 5°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:** Mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two minutes or until the two components have fully combined.

The mixed unit should be applied immediately by roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

If applying further bonded coatings for example self levelling compounds then the last coat can be blinded with Permagard Quartz Aggregate at a rate of 1.5kg – 2kg/m<sup>2</sup> approximately 20-30 minutes after being laid to provide a key for further coatings to bond to.

## Product Information

System Thickness (Dry)	200 Microns (Per Coat)
Solids Contents by weight	100%
Pack Size	5kg
Shelf Life	12 months
Storage	Keep out of direct sun light. Store above 15°C

## Drying Times and Coverage Rates

Coverage Rate	0.25kg/m <sup>2</sup> 20m <sup>2</sup> per 5kg
Pot Life	Up to 30mins from mixing
Recoat Time	8 hours or once surface has lost tackiness
Light Traffic	24-48 hours
Heavy Traffic	72 hours
Full Chemical Cure	Up to 7 days

## Category Guide

FeRFA Category: 2

## Technical Information

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

Slip Resistance	Dry > n/a Wet > n/a
-----------------	------------------------

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance.

Abrasion Resistance	n/a
Temperature Resistance	Tolerant of sustained temperatures up to 60°C
Chemical Resistance	Chemical Resistance to specific materials
Compressive Strength	n/a
Flexural Strength	n/a
Tensile Strength	n/a
VOC	>1g/l
Life Expectancy	Dependent on floor system

## Health and Safety

Permagard Epoxy Resin Damp Proof Membrane 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.



All Permagard products are of a high quality and subject to rigid quality control. The company, however, cannot govern the conditions of usage and application of its products and any warranty, written or implied covers material only. The information contained in this leaflet is given in good faith but no liability can be assumed by the Company for any damage, loss, injury or patent infringement arising from its use.

**Permagard Products Limited** Chittening Industrial Estate, Avonmouth, Bristol. BS11 0YB.  
T: 0117 938 1596 W: [www.pemagard.co.uk](http://www.pemagard.co.uk) E: [sales@pemagard.co.uk](mailto:sales@pemagard.co.uk)

