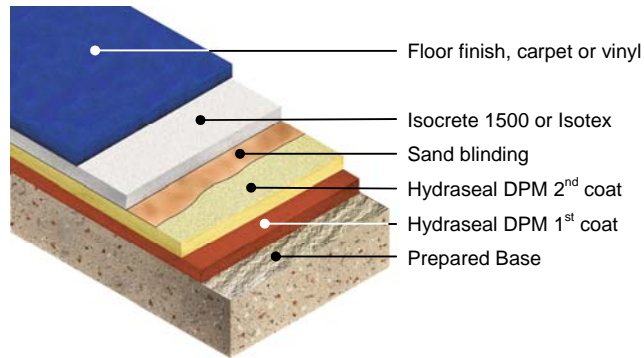
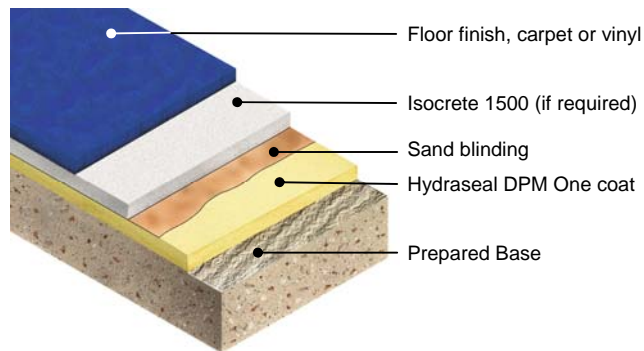


## Hydraseal DPM (Surface Damp Proof Membrane)

### TYPICAL SECTION THROUGH HYDRASEAL DPM



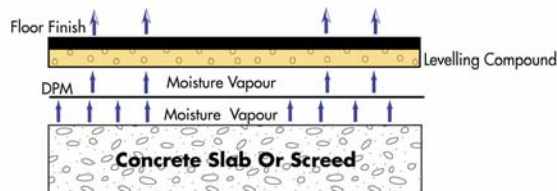
### TYPICAL SECTION THROUGH HYDRASEAL ONE COAT



Moisture effects without a DPM



Moisture effects with a DPM



### Description

A solvent and water free, epoxy resin, liquid applied surface damp proof membrane. Designed to withstand moisture vapour from substrates.

### Uses

#### Hydraseal DPM

Allows immediate installation of moisture sensitive floor finishes onto concrete and cementitious screeds which have a moisture content of up to 100% Relative Humidity.

#### Hydraseal One Coat

Allows immediate installation of moisture sensitive floor finishes onto concrete and cementitious screeds which have a moisture content of up to 85% Relative Humidity.

### Benefits

- Reduces project timescale, allows early installation of floor finishes
- Impervious to water
- Excellent adhesion to concretes and screeds
- Tolerates up to 100% Relative Humidity in the concrete or screed substrate
- Easy to apply
- Solvent free, low odour
- Excellent gap filling properties
- Contrasting colour coats allows for visual control of the Hydraseal DPM membrane uniformity in laying
- The Hydraseal DPM System can be used for either heavy duty industrial or medium to light duty commercial applications.
- With Hydraseal DPM, Isocrete 1500 high strength (30 N/mm<sup>2</sup>) levelling screed and Flowcrete resin finish, the entire floor construction is available from one supplier.

### Project References

Bank of England, PC World, Boots, Rolls-Royce, Marks & Spencer, Curry's, Dixons, BAE Systems; White Crescent Press; Bath University; Pets at Home; Weavers plc.

### Colours

First coat - Red.  
Second coat - Yellow.

## Model Specification

Preparatory work and application in accordance with manufacturer's instructions.

Manufacturer: Flowcrete UK Ltd

Telephone: Customer Service +44 (0)1270 753000

### Product: **Hydraseal DPM**

Thickness: 0.5 mm (approx.)

2 coat surface dpm to be supplied and laid on a sound shotblasted and vacuum cleaned in situ concrete slab.

### Product: **Hydraseal One Coat**

Thickness: 0.3 mm (approx.)

One coat moisture suppressant, to be supplied and laid on a sound shotblasted and vacuum cleaned in situ concrete slab (not exceeding 85% Relative Humidity).

### Note:

Hydraseal DPM is not designed to resist hydrostatic water pressure. In such circumstances external tanking or pressure relief, by e.g. directed drainage, must be provided to the structure.

## Installation Service

The installation should be carried out by a Flowcrete approved contractor. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website [www.flowcrete.com](http://www.flowcrete.com)

## Products Included in this System

### Hydraseal DPM

DPM 1<sup>st</sup> Coat: Hydraseal DPM (Red) @ 0.28 kg/m<sup>2</sup>

DPM 2<sup>nd</sup> Coat: Hydraseal DPM (Yellow) @ 0.22 kg/m<sup>2</sup>

Sand Scatter required for screed finishes:

For a resin:

Silica Sand grade 10/16 (1 - 1.7 mm) @ ~0.5 kg/m<sup>2</sup>

For a cement:

Silica Sand grade 10/16 (1 - 1.7 mm) @ ~2 kg/m<sup>2</sup>

### Hydraseal One Coat (for < 85% RH only)

Moisture suppressant: Hydraseal DPM (Red) @ 0.33 kg/m<sup>2</sup>

Sand Scatter required for screed finishes:

For a resin:

Silica Sand grade 10/16 (1 - 1.7 mm) @ ~0.5 kg/m<sup>2</sup>

For a cement:

Silica Sand grade 10/16 (1 - 1.7 mm) @ ~2 kg/m<sup>2</sup>

Detailed application instructions are available upon request.

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be surface dry before the application of Hydraseal DPM.

## Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

## Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

|                                    |  |
|------------------------------------|--|
| Vapour permeability to ASTM E96:90 | 5 gms / m <sup>2</sup> / 24 hrs  |
| Water Permeability                 | Nil - Karsten test (impermeable)   |
| Compressive Strength               | 50 N/mm <sup>2</sup> (BS6319)  |
| Flexural Strength                  | 20 N/mm <sup>2</sup> (BS6319)  |
| Tensile Strength                   | 15 N/mm <sup>2</sup> (BS6319)  |
| Bond Strength                      | Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa. |

## Speed of Cure

|               | 10°C    | 20°C    | 30°C    |
|---------------|---------|---------|---------|
| Pot life      | 60 mins | 35 mins | 20 mins |
| Light traffic | 24 hrs  | 18 hrs  | 12 hrs  |
| Full traffic  | 72 hrs  | 48 hrs  | 36 hrs  |

## Overlaying

Resin floor finishes can be laid directly onto Hydraseal DPM. If there is no sand blind applied to the Hydraseal DPM, then the resin floor finish should be applied within 24 hours of the application of the Hydraseal DPM.

For direct bonding to Hydraseal DPM, the adhesive manufacturer should be consulted to determine if a sanded or unsanded finish is required.

## Life Expectancy

Hydraseal DPM is in practice a permanent membrane to protect final finishes from moisture related damage for the life of the floor, subject to there being no structural movement nor failure of the concrete slab, no severe thermal cycling nor exposure to temperatures above 50°C.

## Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The controlled moisture vapour permeability provided by Hydraseal DPM enhances the service life of the flooring system, reducing the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

## Focus on the Floorzone

Flowcrete Group plc are world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, corrosion protection systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

## Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

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**Flowcrete**  
for the world at your feet