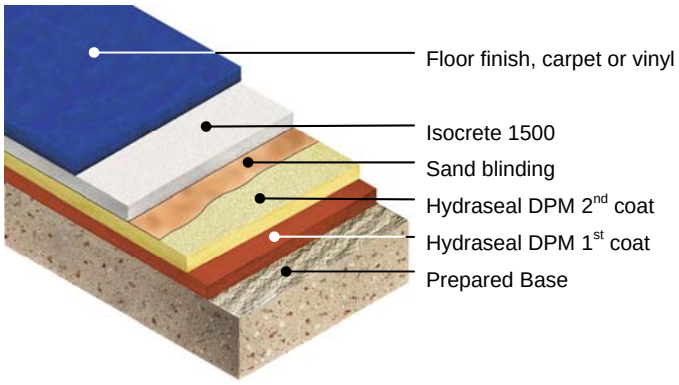
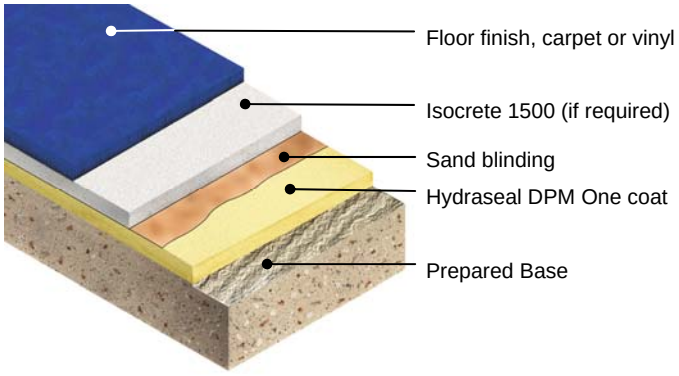
CE
14
EN13813

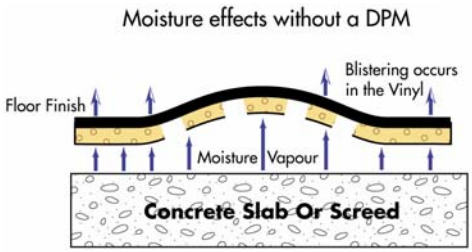
Hydraseal DPM (Surface Damp Proof Membrane)

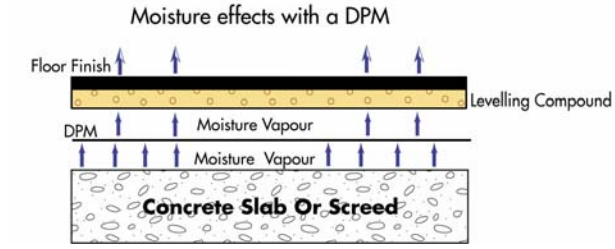
TYPICAL SECTION THROUGH HYDRASEAL DPM



TYPICAL SECTION THROUGH HYDRASEAL ONE COAT







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.

Also acts as a Radon barrier when applied to a minimum 0.625 mm (SP Report No. PX 12102).

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/mm²) levelling screed and Flowcrete resin finish, the entire floor construction is available from one supplier.
- Acts as a Radon barrier when applied in 3 coats

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).

Product: **Hydraseal DPM as a Radon barrier**
Thickness: 0.6 mm (approx.)
3 coats to be supplied and laid on a sound shotblasted and vacuum cleaned in situ concrete slab.

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.

Substrate Requirements

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

Products Included in this System

Hydraseal DPM

DPM 1st Coat: Hydraseal DPM (Red) @ 0.28 kg/m^2
DPM 2nd Coat: Hydraseal DPM (Yellow) @ 0.22 kg/m^2
Sand Scatter required for screed finishes:

For a resin:
dry Silica Sand/Quartz grade 1-2mm @ 0.5 kg/m^2
For a cement :
dry Silica Sand/Quartz grade 1-2mm @ 2 kg/m^2

Hydraseal One Coat (for < 85% RH only)

Moisture suppressant: Hydraseal DPM (Red) @ 0.33 kg/m^2
Sand Scatter required for screed finishes:

For a resin:
dry Silica Sand/Quartz grade 1-2mm @ 0.5 kg/m^2
For a cement :
dry Silica Sand/Quartz grade 1-2mm @ 2 kg/m^2

Detailed application instructions are available upon request.

Hydraseal DPM as a Radon Barrier

1st Coat: Hydraseal DPM (Red) @ 0.28 kg/m^2
2nd Coat: Hydraseal DPM (Yellow) @ 0.22 kg/m^2
3rd Coat: Hydraseal DPM (Red) @ 0.22 kg/m^2

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.co.uk

Technical Information

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

Reaction to fire	B_{FL}- s1	EN 13501-1
Bond Strength	2.6 N/mm^2	EN 13892-8
Adhesion on wet concrete	2.7 N/mm^2	EN 13578
Compressive Strength	50 N/mm^2	EN 13892-2
Flexural Strength	20 N/mm^2	EN 13892-2
Tensile Strength	15 N/mm^2	BS 6319-7
Water vapour transmission rate	1 g / m^2 / day	EN ISO 7783-2
Permeability to water vapour	4.4 mg /m^2 / h/ mm (Hg)	EN ISO 7783-2

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.

Important Notes

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.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

2014.07, 08 UK

Flowcrete UK Ltd
The Flooring Technology Centre Booth Lane
Sandbach Cheshire CW11 3QF UK.
Tel: +44 (0) 1270 753000 Fax: +44 (0) 1270 753333
Email: uk@flowcrete.com
Flowcrete UK Ltd is an RPM company