

Hydraseal DPM

(Surface Damp Proof Membrane)

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

Hydraseal DPM

Allows immediate installation of moisture sensitive floor finishes onto substrates with a moisture content of up to 100% RH. Also acts as a Radon barrier when applied to a minimum 0.625mm (SP Report No. PX 12102).

Hydraseal One Coat

Allows immediate installation of moisture sensitive floor finishes onto substrates with a moisture content of up to 85% RH.



Water Permeable:

Semi permeable to water vapour and tolerates up to 99% relative humidity.



Excellent Adhesion:

Provides a secure bond to concrete and screed substrates.



Solvent Free:

Solvent free, low in VOCs and environmentally friendly.



Easy to Apply & Time Saving:

Coloured coats allows visual control of the membrane uniformity whilst laying. Allows early installation of floor finishes.



Red



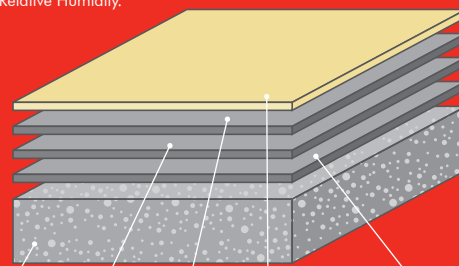
Grey 222

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

Technical Profile*

REACTION OF FIRE				
EN 13501-1	B _{FL} - s1			
BOND STRENGTH				
EN 13892-8	2.6 N/mm ²			
ADHESION ON WET CONCRETE				
EN 13 578	2.7 N/mm ²			
COMPRESSIVE STRENGTH				
EN 13 892-2	50 N/mm ²			
FLEXURAL STRENGTH				
EN 13 892-2	20 N/mm ²			
TENSILE STRENGTH				
BS 63 19-7	15 N/mm ²			
WATER VAPOUR TRANSMISSION RATE				
EN ISO 7783-2	1 g / m ² / day			
PERMEABILITY TO WATER VAPOUR				
EN ISO 7783-2	4.4 mg / m ² / h/ mm (Hg)			
THICKNESS				
Hydraseal DPM	0.5 mm (approx.)			
Two coat surface dpm to be supplied and laid on a sound shotblasted and vacuum cleaned in situ concrete slab.				
Hydraseal One Coat	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).				
Hydraseal DPM (Radon barrier)	0.6 mm (approx.)			
3 coats to be supplied and laid on a sound shotblasted and vacuum cleaned in situ concrete slab.				
OVERLAYING				
Resin rich floor finishes (e.g. coatings) 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.				
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

*These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.



Prepared Substrate Sand Blinding Isocrete 1500 Floor Finish Hydraseal DPM (1/2 coats, see Products Included in this System)

Model Specification

System	Hydraseal DPM, Hydraseal One Coat, Hydraseal DPM as a Radon barrier
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Preparatory work and application in accordance with manufacturer's instructions.

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.

Products Included In This System

Hydraseal DPM	
DPM:	1st Coat: Hydraseal DPM (Red) @ 0.28 kg/m ² 2nd Coat: Hydraseal DPM (Yellow) @ 0.22 kg/m ²
Sand Scatter*:	<u>For a resin screed only:</u> dry Silica Sand/Quartz grade 1–2 mm @ 0.5 kg/m ² <u>For a cement:</u> dry Silica Sand/Quartz grade 1–2mm @ 2 kg/m ²
Hydraseal One Coat (for <85% RH only)	
DPM:	Hydraseal DPM (Red) @ 0.33 kg/m ²
Sand Scatter*:	<u>For a resin screed only:</u> dry Silica Sand/Quartz grade 1–2 mm @ 0.5 kg/m ² <u>For a cement:</u> dry Silica Sand/Quartz grade 1–2mm @ 2 kg/m ²
Hydraseal DPM as a Radon barrier	
DPM:	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

Detailed application instructions are available upon request.

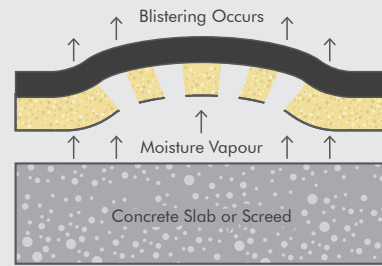
Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm², free from laitence, dust and other contamination. Substrate should be surface dry before the application of Hydraseal DPM.

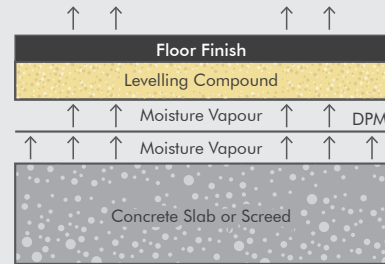
Installation Service

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

Moisture Effects - Without DPM



Moisture Effects - With a DPM



Life Expectancy

Hydraseal DPM is in practice a permanent moisture mitigating 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 floor, 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 products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.

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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [07/01/2020, 03 UK]