

Hydraseal DPM

Hydraseal DPM is a 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 concrete and cementitious screeds which have a moisture content of up to 85% Relative Humidity.

Hydraseal One Coat allows immediate installation of moisture sensitive floor finishes onto concrete and cementitious screeds which have a moisture of 85% Relative Humidity.

Benefits

- Reduces project time scale, allow early installation of floor finishes.
- Impervious to water.
- Excellent adhesion to concrete and screeds.
- Tolerates up to 100% Relative Humidity in the concrete or screed substrate.
- Easy to apply.
- Solvent free, low odour.
- Excellent gap, filing 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 (30N/mm²) levelling screed and Flowcrete resin finish, the entire floor construction is available from one supplier.

Colours

First coat – Red / Yellow.

Model Specification

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

Product: Hydraseal DPM

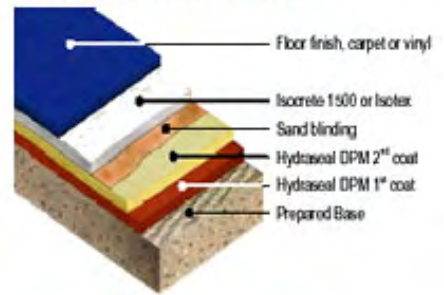
Thickness: 0.5mm (approx.) 2 coat surface dpm to be supplied and laid on a sound shotblasted and vacuum cleaned insitu concrete slab.

Product: Hydraseal One Coat Thickness

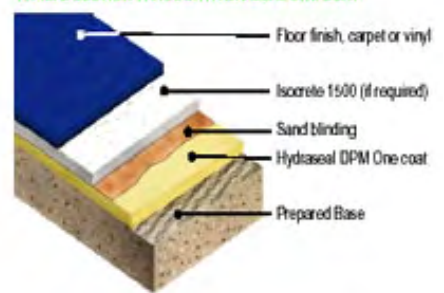
0.3mm (approx.) One coat moisture suppressant, to be supplied and laid on a sound shotblasted and vacuum cleaned insitu concrete slab (not exceeding 85% Relative Humidity).

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.

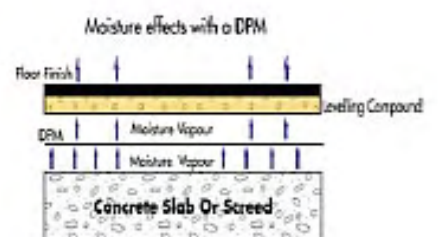
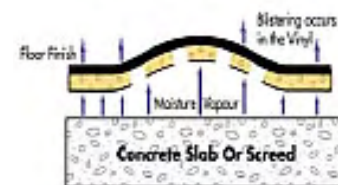
TYPICAL SECTION THROUGH HYDRASEAL DPM



TYPICAL SECTION THROUGH HYDRASEAL ONE COAT



Moisture effects without a DPM



Hydraseal DPM

Products included in this system

Hydraseal DPM

DPM 1st coat: Hydraseal DPM (Red) @ 0.28kg/m²

DPM 2ndcoat: Hydraseal DPM (Yellow) @ 0.22kg/m²

Sand Scatter required for screed finishes:

For a resin: Silica Sand grade 10/16 (1-1.7mm) @ ~ 0.5kg/m²

For a cement: Silica Sand grade 10/16 (1-1.7mm) @ ~ 2kg/m²

Hydraseal One Coat

Moisture suppressant: Hydraseal DPM (Red) @ 0.33kg/m²

Sand Scatter required for screed finishes:

For a resin: Silica Sand grade 10/16 (1-1.7mm) @ ~ 0.5kg/m²

For a cement: Silica Sand grade 10/16 (1-1.7mm) @ ~ 2kg/m²

Detailed application instructions are available on request.

Substrate Requirements

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

Technical Information

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

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

Speed of cure

	10°C	20°C	30°C
Pot Life	60mins	35mins	20mins
Light Traffic	24hrs	18hrs	12hrs
Full chemical cure	72hrs	48hrs	36hrs

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 finish from moisture related damage for the life of the floor, subject to there being no structural movement nor failure of the concrete slab, nor 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 our staff.



Valle Del Miele - Chicken Farm



Nestle Malta Ltd.

