



# No Hydro Liquid Applied Damp Proof Membrane (DPM)

## Product Description

A ready-to-use two coat application No Hydro Liquid Applied Damp Proof Membrane DPM used in the construction industry as a perfect solution for the treatment of damp floors. No Hydro Liquid Applied Damp Proof Membrane DPM is SBR Latex-based liquid. No Hydro Liquid Applied Damp Proof Membrane DPM, with its strong bond acts as a effective gas barrier against methane and carbon dioxide gases.

## Benefits

- Protection For Damp Floors
- Bitumen-free
- Ready to apply
- Easy to use

## Properties

Appearance	Blue Liquid
Finish	Black Liquid Damp Proof Membrane
Size(s) & Packaging	5 litre buckets
Coverage	Up to 5m <sup>2</sup> in a 2 coat application
Usage	Ready To Use
Dry Time	Touch Dry = 1 Hour
Storage	Store in a cool, well ventilated area. Keep container tightly closed. Protect from frost
Shelf Life	12 months

## Substrate Preparation

### Preparation

1. The substrate should be smooth or have a light, even texture. Any masonry should be flush pointed and defects in existing surfaces made good.
2. Ensure surface is clean, sound and free of dust, loose materials or surface water, but damp substrates are acceptable. It is sometimes advantageous to pre-wet concrete or masonry substrates before application.
3. Test adhesion to substrate using a sample area before commencing application.



## Mixing

If necessary, the compound can be diluted with up to 10% water, however, care should be taken to ensure the correct dry coat thickness is achieved.

## Application

No Hydro Liquid Applied Damp Proofing Membrane can be applied using brush, roller or airless spray.

### Single Coat Application:

If a single dry coat thickness of more than 0.3 mm is required, it is recommended that No Hydro Liquid Applied DPM be applied using airless spray. A single coat thickness of up to 1 mm is possible using this application method..

### Two Coat Application:

If two coats are being applied it is recommended that the coats be applied at right angles to each other. Before applying the second coat it is necessary to let the first coat become touch dry. The time scale for this will vary according to site conditions, but will typically be after 1 hour. .

The second coat should be applied within 24 hours. After all coats have been applied, the membrane should be left for at least 4 days before attempting any bond tests.

### Roof Application::

Blistering can sometimes occur during this application process. This occurs when the heat from the sun causes a vapour pressure build up below the membrane. The problem is exacerbated if the background





concrete is wet. To minimise this risk and ensure a good bond to the substrate, the following should be undertaken.

- Vigorously brush the first coat into the background concrete using a stiff bristled brush.

OR

- Prime the roof with a slurry of SBR Latex, if using roller, or an airless spray application method. Allow the slurry to harden for 2 days before applying No Hydro Liquid Applied Damp Proof Membrane.

#### **Wall / Floor Junctions:**

In some situations, e.g. at high stress points such as wall/floor junctions, it is beneficial to use polypropylene fabric (skrim) reinforcement. By choosing a suitable reinforcement it is possible to achieve good control of the coating thickness.

1. Choose a fabric with an approximate thickness of 0.5 mm.
2. Roll the fabric into the base coat while wet.
3. Allow the first coat to dry to a tacky condition.
4. Completely fill and cover the mesh with the second coat of No Hydro Liquid Applied Damp Proofing Membrane and a minimum thickness of 0.6 mm will automatically be achieved.

#### **Conditions & Limitations**

No Hydro Liquid Applied Damp Proof Membrane should not be applied when the temperature of the substrate, or the air temperature is below 7°C and falling.

The dried film, like most organic coatings, is combustible and hence will not be suitable in all situations e.g. it should not be used to coat flammable materials (expanded polystyrene).

#### **Curing**

Touch dry within 1 hour the Initial cure within 24 hours and full cure is 4 days.

#### **Cleaning Equipment**

All tools should be cleaned with water immediately after use.

#### **Storage & Shelf Life**

Store in a sealed container, in temperatures between 5°C and 35°C, protected from frost and direct sunlight. Shelf life is 12 months when unopened, undamaged and stored correctly.

#### **Health & Safety**

For further information and advice please contact the No Hydro Technical Department and consult the Safety Data Sheet, which is available upon request.

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Adhesion to Substrate	Test Type	Results
Concrete 14 Days Air Cured	Pull-off Test	1.3 - 2.1 N/mm <sup>2</sup>
Concrete 3 Months Immersion in Water	Pull-off Test	Above 1.0 N/mm <sup>2</sup>
Concrete 28 Days Air Cured	Slant Shear	33 N/mm <sup>2</sup>
Brick (Fletton) 28 Days Air Cured	Pull-off Test	2.5 N/mm <sup>2</sup>
Lightweight aggregate block	Pull-off Test	- 0.5 N/mm <sup>2</sup> due to failure of block
Steel 28 days Air cured	Pull-off Test	1.6 - 3.1 N/mm <sup>2</sup>
Plasterboard, Plywood and Lead	Peel Test	Strong Bond judged Subjectively

Adhesion of materials onto dried membrane	Test Type	Results
Ceramic Tile Adhesives	Bond strength/Pull-off Test	0.5 N/mm <sup>2</sup>
Floor Screeds / Renders	Pull-off Test	2 N/mm <sup>2</sup>

