

PRODUCT DATA SHEET : NO MORE DAMP TECHNOSEAL DPM

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STTDS03

PRODUCT DESCRIPTION

NO MORE DAMP Technoseal is a ready to use, SBR based, liquid damp-proofing membrane which provides a seamless barrier against water penetration, radon, gas methane and carbon dioxide. The product supplied is a viscous liquid of similar consistency to thick emulsion paint and dries to form a tough, semi-gloss finish.

TYPICAL USES

- Floors: Under/ above screeds to provide a damp-proof membrane
- Basements: As part of a waterproofing system below ground level
- Walls: Can be used under render or plaster as a water barrier or vapour barrier
- Ponds: Should be used as a finish over No More Damp Tanking Slurry or Hydradry Tanking Slurry in ponds which hold aquatic life etc.

ADVANTAGES

- ✓ **NON-TOXIC, NON-HAZARDOUS AND SOLVENT FREE**
- ✓ **IDEAL IN VERY WET AREAS - FLOORS AND WALLS IN WET ROOMS AND KITCHENS**
- ✓ **EASY APPLICATION BY BRUSH, ROLLER OR HIGH PRESSURE SPRAY**
- ✓ **APPLY TO BLOCKWORK, STONE, BRICK, TIMBER AND CONCRETE**
- ✓ **CAN BE APPLIED TO DAMP WALLS AND FLOORS**
- ✓ **CAN BE PLASTERED AND BOARDED ON TOP**
- ✓ **FOR INTERNAL USE ONLY UNLESS RENDERED/ PROTECTED ON TOP**
- ✓ **TWO COAT APPLICATION**



SUBSTRATE 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

Technoseal can be applied using brush, roller or airless spray.

SINGLE COAT APPLICATIONS

If a single dry coat thickness of more than 0.3 mm is required, it is recommended that Technoseal be applied using airless spray. A single coat thickness of up to 1 mm is possible using this application method.

TWO COAT APPLICATIONS

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.

APPLICATION

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 APPLICATIONS

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 NO MORE DAMP SBR Latex, if using roller, or an airless spray application method. Allow the slurry to harden for 2 days before applying Technoseal.

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.

- Choose a fabric with an approximate thickness of 0.5 mm.
- Roll the fabric into the base coat while wet.
- Allow the first coat to dry to a tacky condition
- Completely fill and cover the mesh with the second coat of Technoseal and a minimum thickness of 0.6 mm will automatically be achieved.

APPLICATION CONDITIONS AND LIMITATIONS

NO MORE DAMP Technoseal 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).

A minimum dried coat thickness of 0.6 mm is needed to provide a vapour barrier. This should be applied in a minimum of two coats.

APPLICATION CONDITIONS AND LIMITATIONS

The incorporation of polypropylene fabric increases the tensile strength but decreases the extensibility.

PROPERTIES

Adhesion to Substrate:	Test Type	Results
Concrete 14 Days Air Cured	Pull-off Test	1.3 - 2.1 N/mm ²
Concrete 3 Months Immersion in Water	Pull-off Test	Above 1.0 N/mm ²
Concrete 28 Days Air Cured	Slant Shear	33 N/mm ²
Brick (Fletton) 28 Days Air Cured	Pull-off Test	2.5 N/mm ²
Lightweight aggregate block	Pull-off Test	- 0.5 N/mm ² due to failure of block
Steel 28 days Air cured	Pull-off Test	1.6 - 3.1 N/mm ²
Plasterboard, Plywood and Lead	Peel Test	Strong Bond judged Subjectively
Adhesion of materials onto dried membrane		
Ceramic Tile Adhesives	Bond strength/ Pull-off Test	0.5 N/mm ²
Floor Screeds / Renders	Pull-off Test	2 N/mm ²
Barrier Properties		
0.6 mm thick film of Technoseal DPM cured at 23°C / 50% RH for 7 days supported on a porous tile biscuit	Resistance to water pressure (positive head of pressure)	Prevented water at 0.2 N/mm ² pressure during 24 hour penetrating tile.
0.6 mm thick film of Technoseal DPM cured at 23°C / 50% RH for 7 days	Water Vapour permeability	<4g/m ² /24 hours at 25°/ 75% RH
	Carbon Dioxide permeability	Carbon dioxide resistance of 100 metres of still air
	Radon Gass permeability	A 2 mm thick coating passed as "Radon-Tight"
	Methane Permeability differential of 1 bar	79ml/m ² /day under a partial pressure
	Chemical Resistance - good	Silage, dilute acids (except oxidising acids such as nitric acids) alkalis and salt solutions
	Chemical Resistance - medium	Transformer oil and cooking oil
	Chemical Resistance - poor	Oxidising agents, organic solvents such as petrol and toluene

PROPERTIES

Mechanical Properties	Test	Result
0.6 mm thick film of Technoseal DPM cured at 23°C/ 50% RH for 21 days	Tensile Strength	4 N/mm ² Testing speed 500 mm/minutes
	Elongation	350% Testing speed
	Shore A Hardness	70
	Low Temperature Flexibility Severe Mandrel Test	Pass at temperature down to 0°C
0.6 mm thick film of Technoseal DPM cured at 23°C /50% RH for 21 days on cracked and uncracked mortar.	Crack Bridging Potential	2 mm at 23°C
Artificial Ageing	Test	Result
0.6 mm thick film of Technoseal DPM cured at 23°C /50% RH for 21 days	Artificial Ageing in Marr weatherometer	After 2000 hours film contained surface cracks penetrating 10% of the 0.6 mm film thickness
	Accelerated light ageing in a Xenotest 150 machine	After 500 hours no apparent defects in the membrane

CURING

- Touch dry within 1 hour
- Initial cure within 24 hours
- Full cure 4 days

CLEANING EQUIPMENT

All tools should be cleaned with water immediately after use.

PACK SIZE AND COVERAGE

Pack Size: 5 Kg Buckets
Coverage: Up to 5 m² in a two coat application

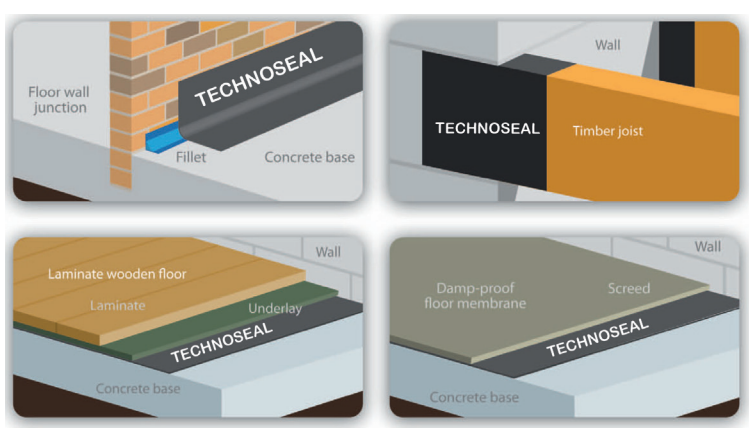
STORAGE

Store in a sealed container, in temperatures between 5°C and 35°C, protected from frost and direct sunlight.

SHELF LIFE

12 months when unopened, undamaged and stored correctly.

APPLICATION EXAMPLES



HEALTH AND SAFETY

For further information and advice please contact the Wykamol Technical Department and consult the Safety Data Sheet, which is available upon request.