



**DRYBASE**  
Vapour Membrane.

### Description

DryBase Vapour Membrane is a single-pack waterproofing system that is supplied ready to use straight from the tub or pail. The product is supplied as a black or white liquid with a consistency similar to that of thick emulsion paint. Once applied, the product cures to form a membrane that is flexible, elastic, and resistant to abrasion and UV light. DryBase Vapour Membrane is water-based and safe to apply onto damp substrates by brush, roller or spray. The applied product is typically touch-dry in one hour.

### Areas of Application

- Waterproofing membrane giving high flexibility and good bonding.
- Waterproofing system for basements below ground level.
- Waterproofing or tanking to walls either alone or as part of a multilayer system.
- For roofs, will act as the principal waterproofing system or as part of a repair system.
- Under tiled areas as a secondary protection for wet areas.
- Silage tanks.



### Preparation

All contact surfaces must be sound, clean smooth with a trowelled or brushed finish. Any masonry should be flush pointed and defects in existing surfaces made good. Remove any laitence, dust, loose material or surface water.

### Priming

No priming is necessary. To assist the membrane in fully wetting out the substrate the background may be dampened. There should not be any standing water.

### Coating and Coverage

Stir well before use. The membrane may be applied by brush, roller or airless spray. If necessary the liquid compound may be diluted with a little water to reduce the viscosity. Care should be taken to ensure that the correct dry coat application thickness is achieved and that the drying time is not unacceptably extended.

A minimum dry film thickness of 0.6mm is required to provide a vapour barrier. Typical coverage value, depending on substrate, is 1.1 litres/m<sup>2</sup>. This should be applied in a minimum of two coats, each of 0.55 litres/m<sup>2</sup>, in order to comply with CP102: 1973, Code of Practice for the protection of buildings against water from the ground

For the dry film thickness to be 0.6mm, the wet film thickness needs to be 1.1mm. This will be achieved at a coverage rate of 1.1 litres/m<sup>2</sup> applied in two coats each of 0.55 litres/m<sup>2</sup> (1.2kg/m<sup>2</sup> applied in two coats each of 0.6 kg/m<sup>2</sup>). For the application of a dry film thickness of greater than 0.3mm in a single coat it is recommended that the membrane is applied by airless spray. Using airless spray, a single application dry coat thickness up to 1mm may be achieved.

When applying two or more coats it is recommended that subsequent coats are applied at right angles to the previous coat. Before applying a second coat it is necessary to allow the first coat to become touch dry, typically one hour. The second coat should be applied within 24 hours of applying the first coat. If applying a subsequent screed to DryBase Vapour Membrane, the second coat may be used as a primer for the screed.

## Curing

No special curing is required. Application of the membrane should not be undertaken if rain is expected before the coating can dry. Do not apply in freezing conditions.

## Standards

DryBase Vapour Membrane has been tested in accordance with appropriate parts of the following standards:

B.S.3177, Determination of water vapour permeability for flexible sheet materials.

B.S.8204, Code of practice for polymer modified wearing surfaces.

Code of Practice 102:1973, Code of practice for protection of buildings against water from the ground.

## Typical Properties

Specific Gravity @ 25°C: 1.1

Viscosity: 2800-4300mPas

Resistance to Pressurised Water Penetration: 0.6mm thick dry film of the membrane will resist a water pressure of 0.2N/mm<sup>2</sup> (equivalent to 20 metres head of water)

Water Vapour Permeability: 0.6mm thick dry film of the membrane conditioned at room temperature for 7 days prior to test gave a water vapour permeability <4g/m<sup>2</sup>/24hours at 25°C/75%RH (BS 3177)

Carbon Dioxide Permeability: On the basis that the carbon dioxide permeability of a coating is ten times less than its water vapour permeability, 0.6mm thick dry film of the membrane will have a carbon dioxide resistance of 100 metres of still air. (Recommendation for anti CO<sub>2</sub> coatings at least 50m)

Accelerated Ageing: Ageing in "Xenotest" equipment showed that an exposure equivalent to two years of Arizona sunlight did not embrittle the film

## Storage and Shelf Life

Shelf life: 12 months when kept in dry conditions at a temperature of 5°C to 35°C. Storage at higher temperatures may reduce the shelf life. Liquid Vapour Membrane must be protected from frost.

## Health & Safety / Fire

Liquid Vapour Membrane is non-flammable in the wet state. Dry membrane will burn in fire conditions. Full health & Safety datasheet available on request.