TECHNICAL DATA 7.2.2 Revision Date 11/2002

LIQUID VAPOUR MEMBRANE

Product Codes
TM43, TM44, TM45, TM46
Packaging listed overleaf

Description
Liquid Vapour Membrane is a styrene butadiene based single pack waterproofing system. The product is supplied ready to use straight from the tub or pail. The consistency is similar to that of thick emulsion paint, the standard product being supplied as a black or white membrane coating. The membrane is flexible and elastic, resistant to abrasion and UV light.
Liquid Vapour Membrane is water based and safe to apply onto damp substrates by brush, roller or spray. Membranes are typically touch dry in one hour.

Uses include:
Waterproofing membrane giving high flexibility and good bonding.
Under self smoothing floors or thin section floor screeds where the original membrane has been punctured.
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.

Specification Outline
Liquid Vapour Membrane as manufactured by Tecroc Products Ltd should be used to form all liquid or vapour membranes required for waterproofing purposes. The product must be stored, handled and applied strictly in accordance with the manufacturer's instructions.

Quality Assurance
Tecroc products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002;1994 and is assessed by SGS Yarsley International Certification Services Ltd.

Standards
Liquid 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 Membrane 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^2 (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/m²/24hours 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_2 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

Instructions For Use

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.

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TECROC PRODUCTS

LIQUID VAPOUR MEMBRANE

Instructions For Use

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

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/m². This should be applied in a minimum of two coats, each of 0.55 litres/m², 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^2 applied in two coats each of 0.55 litres/m² (1.2kg/m^2 applied in two coats each of 0.6 kg/m²). 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 Liquid 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.

Precautions

Health and Safety

Liquid Vapour Membrane should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during application. Should Liquid Vapour Membrane come into contact with skin, remove before drying by washing with soap and water. Should accidental eye contact occur wash with plenty of water and seek medical advice. If swallowed seek medical advice immediately. Do not induce vomiting.

Full health and safety data are given in the Product Safety Data Sheet.

Fire

Liquid Vapour Membrane is non-flammable in the wet state. Dry membrane will burn in fire conditions.

Yield

For the membrane to give maximum protection the thickness of the dried material should be 0.6mm. To achieve this apply two coats each at a coverage rate of 1.8m^2 per litre. The required quantity of material may vary depending on the substrate.

Storage And Shelf Life

Liquid Vapour Membrane will have a shelf life of 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.**

Packaging And Ordering

Liquid Vapour Membrane is supplied in:

5 litre containers (6Kgs)	Product Code TM 43 White
5 litre containers (6 Kgs)	Product Code TM 45 Black
25 litre containers (30 Kgs)	Product Code TM 46 White
25 litre containers (30 Kgs)	Product Code TM 44 Black
25 litre containers (30 Kgs)	Product Code TM 49 Grey

Additional colours may be supplied to order.

For further information and sales please contact your local Tecroc Products office as listed below.

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