

Waterproofing & Gas Proofing PVC MEMBRANE (Delta T-LOCK)

TECHNICAL DATA SHEET



Description

Delta T-Lock is an innovative PVC membrane designed for waterproofing subterranean areas such as basements, car parks, cellars, lift pits, tunnels and similar water retaining structures. The design of the membrane provides one face that is "T" shaped that provides a secure mechanical bond to concrete ensuring long term secure adhesion of concrete to the membrane. Furthermore the durability of T-Lock is a key benefit for critical underground applications with the ability to withstand mechanical damage, chemical spillages and weather resistance.

Features & Benefits

- * Resistant to acidic, alkaline and general corrosive environments
- * Suitable on contaminated earth, hydrocarbons and gas emissions
- * Outstanding durability, with flexible and high strength properties
- * Crack resistant, able to withstand substrate movement and stratigraphic change
- * Seamless sealing at wall floor junctions
- * Leak proof and vapour resistant
- * Outstanding weather resistance while exposed to external conditions
- * Light weight, easy of handling, provides time efficient application
- * Made by extrusion, PVC sheet is easily welded together to ensure high strength lap joints and seams. Easily joined and extended in size.
- * Puncture resistance and excellent trafficability for on site conditions
- * Able to be applied to damp surfaces, free of surface water

Application

Delta T-Lock protects concrete against the ingress of water, gas and corrosive subterranean solutions. Once concrete is applied over the T-Lock membrane a mechanical high strength adhesion key is formed, ensuring concrete remains bonded and locked to the membrane surface. The PVC nature of T-Lock provides excellent ageing resistance and durability to protect concrete against earth movement.

Surface Preparation

Surfaces must be uniform, sound and even. Blinding slabs or compacted sub base fills are to be free of surface water. T-Lock can be applied over damp surfaces. Remove loose aggregate on the surface and ensure the general area is free of sharp protrusive materials. For vertical surfaces, T-Lock can be applied over form work or other structural surfaces that are sound and in a stable condition.

Application

Full Method statement is available for fixing

*T-Lock sheet is unrolled, straightened and placed in position

*At wall/floor junctions, T sections are planed along a 150-200mm section to form a smooth surface to enable ease of bending at junctions

*Membrane onto vertical sections can be mechanically fixed to the substrate. This penetration is over patched with a piece of PVC welded to form a seamless seal.

*Membrane is positioned in place on horizontal surfaces

*Lapping is formed at a minimum 30mm. At all overlapped sections a copper wire is incorporated in the lap for testing of seam integrity once lapped sections are fully welded and sealed.

*This method is used on vertical, horizontal, overhead and complex shapes without the use of any other sealing accessories to form a high strength sealed system.

*External edges and penetrations are sealed with a high grade rapid PU sealant/membrane



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Packaging & Storage

*Best stored at room temperature

*Keep away from sources of mechanical damage

*Recommended to be kept under cover

Notes

It is recommended before commencing the application; that adhesion of products to be used (e.g. primers, membranes, coatings adhesives etc) is tested over a typical area of the prepared surface to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. Delta Technologies offers a service for pre testing adhesion to surfaces for large commercial areas or unusual substrates. For further details contact Delta Technologies.

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Product Disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Delta Technologies does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

Tensile Strength (longitudinal) ASTM D412:	17.25MPa
Fix Key tensile strength	>176N/cm
Elongation at break (longitudinal): ASTM D412	225%
Shore D Hardness ASTM D2240:	54-62
Tear strength ADTM D570:	110 N/mm
Water absorption ASTM D570:	0.1% Within
Plasticiser permeance ASTM D1203	0.4% Within
Chemical solution soaking ASTM D543:	Change in weight
Sulphuric acid 20%	0.12%
Ammonium Hydroxide 5%	0.40%
Sodium Hydroxide 5%	0.10%
Sodium Hypo-chloride 1%	0.20%
Ferric Chloride 1%	0.60%
Nitric acid 1%	0.20%
Soap & detergent solution 2%	0.40%