

Delta Amphibia 1.6mm



DMS 1000 0.9m x 10m roll

DMS 1001 1.8m x 20m roll

Description

Delta Amphibia Pre Applied membrane is a 1.6mm thick co-extruded multi-layer waterproofing membrane. This robust, tough but flexible waterproofing membrane is ideal for all construction applications. Delta Amphibia 1.6mm is an EPDM waterproof membrane available in two widths, reactive to contact with water, self-repairing, self-sealing and self-fastening to concrete.

Delta Amphibia 1.6mm offers differentiated function for total water tightness of underground structures against water seepage. Moreover, it is provided with a calibrated non-woven fabric on the inner face/side in contact with fresh concrete which allows the mechanical adhesion of the membrane to the structure.

Features

- Cold application with easy visual inspection of correct installation
- Resistant to groundwater
- Self-sealing overlapping's
- Absolute impermeability with no side seepage of water
- High puncture resistance
- Immediate mechanical protection, self-repairing also on accidental holes
- High resistance to hydraulic load
- High flexibility and capacity to bridge cracks
- Total adhesion to the reinforced concrete structure
- Easy passage of connecting reinforcements with self-sealing holes
- Resistance to aggressive natural agents contained in the ground
- Also usable in the presence of salt / Brackish water

Specification

BS 8102:2009 Code of practice for protection of below ground structures against water from the ground
 NBS J40 / 130 – Flexible Sheet Tanking / waterproofing



Technical Data

Specification	1.8m x 20m	0.9m x 10m
Roll Dimensions	180m x 20m (70.87 X 787.40in)	0.9m x 10m (35.43 X 393.70in)
Equivalent Area	36 ² m (387.5 ft ²)	9 m ² (96.9 ft ²)
Roll Weight	59kg (130lbs)	15kg (33lbs)
Tolerance	+/- 5%	+/- 5%

Fields of Application

Waterproofing and protection of concrete underground structures such as residential and commercial buildings, shopping centres, public works etc, which require close and continuous contact between the waterproofing product and structure (foundation slabs and walls, against slurry walls, piles, Berlinese or disposable formwork. It can also be used in other structures such as channels, tanks, purification systems and tunnels.

Anti-damp protection for concrete structures built at ground level such as underfloor screeds.

Delta Amphibia Pre-Applied Membrane 1.6mm can be used:

- Multi-storey underground constructions
- Cellars, garages, tavern, technical rooms, underground rooms in general
- Tunnels, underpasses, and similar infrastructures
- Inground pool waterproofing
- Existing cellars, garages, tavern, technical rooms, underground rooms in general
- Existing tunnels, underpasses, and similar infrastructures
- Elevator pits/lightwells

Packaging

0.9m x 10m roll DMS 1000

1.8m x 20m roll DMS 1001

Safety

Always follow the instructions provided in the material safety data sheet and take the precaution described there. Wear appropriate Protective Personal Equipment (PPE) when applying and using the material. Observe all governmental, state, and local safety regulations when processing the material.

Warning

Protect Delta Amphibia 1.6mm with 250 g/m² non-woven textile or with polystyrene/polyurethane insulating panel and backfill with soil, compacting the layers in order to obtain a uniform confinement of the membrane.

Every joint (expansion, rotation, translation) must be sealed with suitable profiles for joints. Delta Amphibia 1.6mm is a professional product.

Surface Preparation and Application

Product	Definition	Type of Protection	Fields of Application
Delta Amphibia Safety Tape	Adhesive tape to protect overlaps	Acrylic adhesive + film	<ul style="list-style-type: none"> In foundation beds with Delta Amphibia application before concreting and in post application on walls.
Delta Amphibia Safety Tape BT	Double-sided butyl tape to protect overlaps	Butyl adhesive on both sides + film	<ul style="list-style-type: none"> In combination with Delta Amphibia Lap Seal in case of Delta Amphibia membrane used against the entry of gases.
Delta Amphibia Grip Tape	Double-sided butyl tape self-fastening to concrete to join overlaps	Butyl adhesive + film with TNT	<ul style="list-style-type: none"> As an alternative to Delta Amphibia Safety Tape for Delta Amphibia applications before concreting to achieve a higher continuity of adhesion to concrete in case of close overlaps or where specifically required (see national/local regulations) On walls with Delta Amphibia pre-applied in formwork, as an alternative or in combination with staples before concreting
Delta Amphibia Lap Seal	Double-sided butyl tape for overlaps gas-tightness	Butyl adhesive + film	<ul style="list-style-type: none"> To complete Delta Amphibia in case of use against the entry gases, in particular radon and methane, in combination with Delta Amphibia Safety Tape BT (see double taping fig.6)
Delta Amphibia Bi-Mastic (See related Technical Data Sheet)	High performance deformable adhesive mastic	Modified silanol adhesive	<ul style="list-style-type: none"> On walls with Delta Amphibia application against retaining wall structures and wherever a tenacious adhesion of the overlaps is required before concreting. On walls with Delta Amphibia applied inside formwork, as an alternative or in combination with staples before concreting

Surfaces must be prepared prior to application and free from contamination such as adhesives, coatings, curing compounds, dust, grease, oils, and any other material that could compromise adhesion.

Surfaces that are to be waterproofed can be damp but must not have great protrusions, cavities or continuous water flows that could compromise the continuity and sealing process of the overlaps. Remove any stagnant water.

Sheets can be folded and cut in any direction.

Delta Amphibia side stamped with "Concrete side" is always installed in contact with the concrete structure that needs to be waterproofed.

Formwork spacer holes need to be sealed with the relevant plastic Delta Amphibia Stopper in different shape according to their diameter:


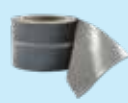






- In case of tubes diam. 20-22 make a Delta Amphibia AKTI-VO 201 bead on the stopper fins near the disc
- In case of tubes diam. 24 make two adjacent Delta Amphibia AKTI-VO 201 beads on the stopper fins near the disc
- In case of metal spacers on traditional wooden formworks, use Delta Amphibia Strip.

To prevent the overlaps of sheets from opening during subsequent processes (e.g. installing reinforcement and concrete casting), they must be sealed with suitable protection.

Accredited Performance Test Data



Ancillaries

Delta Amphibia Pressure Line	DMS 1037		Steel straight profile coated on one side with Delta Amphibia membrane Length = 1.5m (59.06in) Height = 5cm (1.97in) Package = 10pcs	Delta Amphibia Lap Seal	DMS 1041		Butyl adhesive tape for overlapping joints Package = 10m roll (393.70in)
Delta Amphibia Pressure Corner 90°	DMS 1038		Steel corner profile coated on one side with Delta Amphibia membrane Length = 1.5m (59.06in) Height = 5cm (1.97in) X 10cm (3.93in) Package = 10pcs	Delta Amphibia Stopper	DMS 1042		Protective stopper to close formwork holes Package = bag 50 pcs
Delta Amphibia Pressure Corner 270°	DMS 1039		Steel corner profile coated on one side with Delta Amphibia membrane Length = 1.5m (59.06in) Height = 5cm (1.97in) X 10cm (3.93in) Package = 10pcs	Delta Amphibia Bi Mastic	DMS 1028		High performance deformable adhesive mastic 10 unipack box 600 cc/ml unipack and nozzle (per unit)
Delta Amphibia Safety Tape	DMS 1002		One-sided sealing tape typically used for connecting and sealing Delta Amphibia membranes together where they join or overlap Package = 25m roll (984.25in)	Delta Amphibia AKTI-VO 201	DMS 1004		High performing hydro-expansive mastic for sealing through-elements of Delta Amphibia membranes and sealing and waterproofing passing bodies and general cracks in concrete 6 unipack box 320cc/ml (per unit)

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Other Information

Disclaimer: All data and information contained in these Product/ Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed, or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.