

# Delta Amphibia Bi Mastic



DMS 1028 Box of 10

## Description

Delta Amphibia Bi Mastic is an elastic, one-component, modified silane thixotropic sealant and adhesive mastic for high performance bonding. It can be applied both inside and outside as a replacement or integration of mechanical fastenings.

## Features

- High thixotropy, adhesion and durability
- Initial grip with "suction effect"
- Excellent final mechanical performance
- Hygroscopic behaviour when cross-linked with environmental humidity
- Applicable on a wide range of surfaces, both absorbent and non-absorbent without the need for pre-treatments
- Suitable for damp surfaces
- Non-corrosive when applied to metal surfaces
- Solvent and isocyanate free
- Excellent resistance to UV light
- Quick and easy to use

## Specification

BS 8102:2009 Code of practice for protection of below ground structures against water from the ground



## Cleaning

Clean tools immediately after use. Hardened material must be mechanically removed.

## Technical Data

| Specification                          | Test Method | Declared Performance      |
|--|-------------|---------------------------|
| Appearance                             |             | Extruding Adhesive Mastic |
| Application Temperature                |             | From +5C to +40C          |
| Working Temperature                    |             | From +40C to +90C         |
| Specific Weight                        | ISO 1183    | 1.66 g/ml                 |
| Skin-Forming Time (at +23C 50% R.H.)   |             | 240'                      |
| Cross-Linking Speed (at +23C 50% R.H.) |             | 2.5-3 mm/24hrs            |
| Shore A Hardness                       | ISO 868     | 30                        |
| 100% Elongation Module                 | ISO 8339    | 0.47 N/mm2                |
| Elongation at Breaking Point           | ISO 8339    | 337%                      |
| Breaking Modulus                       | ISO 8339    | 0.74 N/mm2                |
| Solid Content                          |             | 100% approx               |

## Fields of Application

Delta Amphibia Bi Mastic is a multi-purpose sealant material for waterproofing, fixing Delta Amphibia membranes as an elastic bonding and sealant for internal and external applications, suitable on a wide range of materials without the requirement of primers, such as aluminium, steel, zinc, copper, cement, plaster, bricks, stone, ceramics, glass, wood and rubbers, plastics and/or synthetics Delta Amphibia Bi Mastic can be used:

- Firm bonding on overlaps of Delta Amphibia membranes
- Joining cavity drain membranes
- To fasten thermal and acoustic panels, cover panels and plasterboard
- Can be used internally and externally (inside and outside)
- Bonding and assembly of thresholds, skirting and windowsills
- Sealing of fittings and details in basins and pools
- To create joints and fittings between prefabricated elements
- Sealing service penetrations
- Pipe penetrations through floors and walls
- Remedial 'breaking out' of concrete

## Consumption

Consumption varies according to type of method of bonding used, curb and points. Theoretical consumption of reference: in case of curb installation with unipack gun and specific reduction nozzle, 20m of curb diam. 5mm are made.

## Packaging

Supplied in 600 cc unipack and nozzle. Delta Amphibia Bi Mastic must be stored in a dry area protected from sunlight and humidity with temperatures between +5°C and +25°C.

# Delta Amphibia Bi Mastic



Accredited  
Performance  
Test Data



## 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. In case of accident contact with skin or eyes, wash thoroughly with water, and consult medical services.

## Surface Preparation and Application

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.

Mount the cartridge in appropriate industry applicator gun with specific nozzle and extrude a continuous curb of Delta Amphibia Bi Mastic, join the elements to be bonded by exerting pressure between both, if necessary, use a rubber roller.

It is recommended to extrude a double mastic curb in case of bonding between large elements.

To reduce cure time, spray mastic with water after extrusion.

## Warning

- Do not use on dusty or loose surfaces and on natural stone
- Do not use on surfaces with presence of oil, greases or releasing agents which may affect adhesion
- Do not use on bituminous, PE, PP, PA, and PTFE surfaces
- For applications on plastics, we would recommend carrying out a preliminary test or contact Delta's technical team
- Do not apply on surfaces with pooled water or subject to rising damp
- Do not apply in ambient temperatures lower than +5°C
- Avoid contact of concentrated acids, petrol, and solvents
- Avoid contact with active chlorine concentrated solutions
- The product polymerisation time may vary according to the curing thermohydrometric conditions, quantity of sealant used and degree of absorbency of the surface
- In case of bonding or sealing, with poor contact of Delta Amphibia Bi Mastic with air, apply a curb of product with a diameter not exceeding the nozzle diameter (5mm).

## 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.

## Ancillaries

|                                     |          |   |  |                                 |          |   |   |
|-------------------------------------|----------|---|--|---------------------------------|----------|---|---|
| Delta Amphibia Pressure Line        | DMS 1037 |  | Steel straight profile coated on one side with Delta Amphibia membrane<br>Length - 1.5m (59.06in)<br>Height - 5cm (1.97in)<br>Package - 10pcs                  | Delta Amphibia Lap Seal         | DMS 1041 |  | Butyl adhesive tape for overlapping joints<br>Package - 10m roll (393.70in)   |
| Delta Amphibia Pressure Corner 90°  | DMS 1038 |  | Steel corner profile coated on one side with Delta Amphibia membrane<br>Length - 1.5m (59.06in)<br>Height - 5cm (1.97in) X 10cm (3.93in)<br>Package - 10pcs    | Delta Amphibia Stopper          | DMS 1042 |  | Protective stopper to close formwork holes<br>Package - bag 50 pcs  |
| Delta Amphibia Pressure Corner 270° | DMS 1039 |  | Steel corner profile coated on one side with Delta Amphibia membrane<br>Length - 1.5m (59.06in)<br>Height - 5cm (1.97in) X 10cm (3.93in)<br>Package - 10pcs    | 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<br>6 unipack box<br>320cc/ml (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<br>Package - 25m roll (984.25in) | Delta Amphibia 1.3mm 0.9m x 10m | DMS 1035 |  | Delta Amphibia 1.3mm 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 1.3mm 1.8m x 20m | DMS 1036 |   |   |
|                                     |          |   |  | Delta Amphibia 1.6mm 0.9m x 10m | DMS 1000 |   |   |
|                                     |          |   |  | Delta Amphibia 1.6mm 1.8m x 20m | DMS 1001 |   | 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.   |