

PRODUCT DATA SHEET

Delta Amphibia Bi Mastic



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

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.

Specification

- BS 8102:2022 Protection of below ground structures against water ingress. Code of practice

Cleaning

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

Product Details

DMS 1028 - Box of 12

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.

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
- 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



Technical Data

Delta Amphibia Bi Mastic	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

The data reported are obtained in the laboratory at +20°C and 60% R.H. (relative humidity)

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 are made.

- 20 m of 5 mm diameter curb (normal nozzle)
- 7 m of 10 mm diameter curb (nozzle cut and reduced by 3 cm)
- 3 m of 15 mm diameter curb (nozzle cut all round)

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. Adequate training is required before industrial or professional use.

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

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.

