



BI MASTIC

PRODUCT DESCRIPTION

BI MASTIC is an elastic, one-component, modified silane thixotropic sealant and adhesive mastic for high performance bonding of different materials, both indoors and outdoors, as a replacement or integration of mechanical fastenings.



PRODUCT APPLICATION

- Elastic bonding and sealing for indoor and outdoor applications, on a wide range of materials without using primers, such as aluminium, steel, zinc, copper, cement and derivatives, plaster, bricks, stone, ceramics, glass, wood and the like, some rubbers and plastics and/or synthetics
- Fastening of thermal and acoustic panels, covering panels, plasterboard
- To create joints and fittings between prefabricated elements
- Bonding and assembly of thresholds and window sills, skirting
- Sealing of through-bodies, connections with thresholds and other details
- Firm bonding of the overlaps of AMPHIBIA 3000 GRIP membrane and BI FLEX System

ADVANTAGES

- High thixotropy, adhesion and durability, and U.V. resistance
- Hygroscopic behaviour, reticulates both with ambient humidity and with the possible presence of post-laying flooding water
- Also applicable on damp surfaces
- Applicable on a wide range of surfaces, both absorbent and non-absorbent
- Does not generate corrosion if applied on metal surfaces
- Can be painted with elastomeric paints
- Free of solvents and isocyanates
- Excellent resistant to UV, good resistance to ageing
- Comfortable, quick and easy to use
- Initial grip with "suction effect" and excellent final mechanical performance

PREPARATION AND APPLICATION The preparation and installation data refer to normal environmental conditions (temperature +20°C; relative humidity 60%).

Sand plastic substrates.

Clean the surfaces from any dust, loose parts, rust, oil, greases, release agents and any other material that could compromise the adhesion of BI MASTIC.

Mount the cartridge on the appropriate unipack gun with specific nozzle and extrude a continuous curb of BI MASTIC, join the elements to be bonded by exerting pressure between them, if necessary using a rubber roller.

If prolonged/intensive use of the product is envisaged, it is recommended that it be applied using a battery- or air-powered unipack gun.

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

To speed-up setting, spray the mastic with water after extrusion.



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References available at www.volteco.com

WARNINGS - IMPORTANT NOTES

Do not use on dusty or loose surfaces.
Do not use on surfaces with presence of oils, greases, release agents which could affect adhesion.
Do not use on bituminous, PE, PP, PA and PTFE (Teflon®) surfaces.
For application on plastics, we recommend carrying out a preliminary test or contact the Volteco Technical Service.
Do not apply on surfaces with pooled water or subject to rising damp.
Do not apply if the temperature is 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 thermohygrometric conditions, quantity of sealant used and degree of absorbency of the surface.
In case of low-temperature applications, it is recommended to soak the unipack cartridges in hot water before application in order to raise the temperature and facilitate use.
In case of bonding or sealing, with poor contact of BI MASTIC with air, apply a curb of product with a diameter not exceeding the nozzle diameter (5 mm).
If the product is still fresh, it can be removed with denatured alcohol.

PACKAGING AND STORAGE

Supplied in 600 cc Unipack and nozzle.
The products must be stored in a dry area protected from sunlight and humidity with temperatures between +5°C and +25°C.
Storage time 12 months.

CONSUMPTION AND YIELD

Consumption varies according to the type and method of bonding used, curb or 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)

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Test method	Declared performance
Appearance		Gray extruding adhesive mastic
Application temperature		from +5°C to +40°C
Working temperature		from -40°C to +90°C
Specific weight	ISO 1183	1.66 g/ml
Skin-forming time (at +23°C 50% R.H)		240'
Cross-linking speed (at +23°C 50% R.H.)		2.5-3 mm/24hrs
Shore A hardness	ISO 868	30
100% elongation module	ISO 8339	0.47 N/mm ²
Elongation at breaking point	ISO 8339	337%
Breaking modulus	ISO 8339	0.74 N/mm ²
Solid content		100% approx

The quoted data are obtained in a laboratory at +20°C and 60% RH.

SAFETY

Refer to the related Safety Data Sheet.

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They may change anytime without prior notice.

Updated versions of this and other documentation (specification, brochure, other) are on www.volteco.com.

In case of translation text may contain technical and linguistic inaccuracies.

LEGAL NOTES

Note for buyer/installer:

This document prepared by Volteco S.p.A. is provided as an aid and guideline for the buyer/installer.

This does not take into consideration the details of each single operational context, for which Volteco S.p.A. will not be held liable.

This does not change and does not extend the obligations of Volteco S.p.A.

It may vary and the installer is therefore required to update his/her information prior to each application by referring to www.volteco.com.

The above clarifications extend to the pre-post-sales technical/commercial information of the commercial network.

