



BI BOND

PRODUCT DESCRIPTION

BI BOND is a two-component filled epoxy adhesive with high thixotropy and the consistency of a soft plaster.



PRODUCT APPLICATION

- Waterproof sealing of joints, cracks and construction joints in combination with BI FLEX System tape
- Repairing or filling cavities, edges, joint angles and cracks
- For small anchorings of connectors in concrete, wood and masonry
- As an adhesive and as finishing plaster for concrete, prefabricated concrete elements and slabs or fibre-reinforced concrete pipes
- As an adhesive and finishing plaster for hard natural stone, bricks, ceramic tiles, steel and aluminium, wood and epoxy resin

ADVANTAGES

- Excellent adhesion to most construction materials
- High resistance to chemical agents and thawing salts
- High mechanical resistance
- High thixotropy, it does not run in vertical or ceiling applications
- Easy preparation of small quantities thanks to the 1:1 mixing ratio of the two components
- Impermeable to liquids and water vapour
- Easy and quick application
- No need for primer

PREPARATION AND APPLICATION Preparing the surfaces

Thoroughly clean the surfaces and remove any loose material with vigorous brushing, sanding or bush-hammering.

Grind or sand metal surfaces.

High-pressure clean surfaces.

For application with negative hydrostatic pressure the concrete surfaces must be roughened/milled for at least 2 mm and the water infiltrations must be removed using TAP 3/I-PLUG rapid-setting mortar (see the relative technical data sheets).

The substrate may be wet but free of water on the surface.

Mixing

Add all of the component B to component A.

Mix for at least two minutes with an electric mixer until a smooth mixture with no colour streaks is obtained.



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Application as an adhesive and as finishing plaster

BI BOND can be applied with a metal spatula or trowel; to improve adherence it is advisable to spread it on both surfaces requiring adhesion and then join the parts, holding them together until the adhesive has set completely.

The minimum thickness for effective adhesion between the parts is 1-2 mm.

If used to bond metal profiles to vertical surfaces, support and press uniformly using struts for at least 12 hours, based on the applied thickness (no more than 5 mm) and the ambient temperature.

Application in combination with BI FLEX System tape on cracks, movement joints and construction joints

See the BI FLEX System data sheet.



References available at www.volteco.com

CONSUMPTION AND YIELD

1.5-1.6 kg/m² per mm in thickness.

PACKAGING AND STORAGE

10 kg package (comp. A 5 kg +comp. B 5 kg) or 5 kg (comp. A 2.5 kg +comp. B 2.5 kg).

BI BOND stored in the original packaging, in a dry place and at a temperature between 10°C and 30°C, can be used within 12 months from when it was packed.

WARNINGS - IMPORTANT NOTES

The application temperature must be between 10°C and 30°C; lower temperatures (and/or presence of humidity at the substrate) can delay the cross-linking process of the BI BOND adhesive, while higher temperatures drastically reduce the pot life.

For applications with temperatures < 10°C store the product in a heated area.

Do not use the already mixed BI BOND adhesive if the pot life has expired (even if the consistency is good)

If the materials are incompatible, check the adhesion between BI BOND adhesive and the substrate.

For application on metal subject to high fluctuations in temperature and/or considerable length, consult the Volteco Technical Office.

After use, clean the tools well with nitro thinner.

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Test method	Values
Appearance/Colour:		Grey soft plaster
Mixing ratio		Component A : Component B = 1 : 1
Working temperature		-40°C +60°C
Specific weight		1.5 kg/l
Expected useful lifetime		30' (at +20°C and 60% R.H.)
Shore A hardness at 2 days	UNI EN ISO 868	10°C: >60 Shore D 21°C: >60 Shore D 40°C: >60 Shore D
Shore A hardness at 7 days	UNI EN ISO 868	10°C: >60 Shore D 21°C: >60 Shore D 40°C: >60 Shore D
Adhesion to the concrete	UNI EN 1542	> 2 N/mm ²
Adhesion to damp concrete	UNI EN 13578	> 2 N/mm ²
Chemical resistance		See the BI FLEX System technical data sheet
Suitable for contact with drinking water	Determination of global migration Ministerial Decree 174 of 04/06/2024	SOCOTEC ITALIA SRL Report n° LF53030/23
Suitable for contact with drinking water	Determination of the specific transfer Ministerial Decree 174 of 04/06/2024	CHELAB SRL Report n° 17/000244151



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SAFETY

Refer to the related Safety Data Sheet.

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