**SPECIFICATIONS**

BI MORTAR LEVELLING SEAL

Supply and installation of shrinkage-compensated pourable grout ideal for applications demanding both waterproofing and high-resistance performance.

It can be used without additions or, for the execution of high thickness castings, it can be integrated with gravel (weight from 6 to 16 mm) up to 30% by weight.

The product must be used for:

• Structural reintegration of columns and beams by casting in formworks

• Fixing of anchoring and metal structures

• Fixing of anchor bolts of metal rails of gates, cranes and machinery in general

• Filling of rigid joints between precast elements

• Rebuilding of pile heads and diaphragm walls

• Refurbishing of reinforced concrete of industrial, road, airport, and car park floors

• Horizontal refurbishment castings (e.g. slabs of lift pits, light-shafts, tanks, etc.) even in case of reduced thicknesses and/or negative water pressure conditions

The material must have the following characteristics:

EC Certification according to UNI EN 1504-3:2006 and UNI EN 1504-6:2006

**Specification, Test method, Values**

**Compressive strength after 28 days (UNI EN 12190):** 72.5 MPa

**Flexural strength after 28 days (UNI EN 12190):** 11.9 MPa

**Adhesion to the concrete (UNI EN 1542):** 3.5 MPa

**Compressive modulus of elasticity after 28 days (UNI EN 13412):** 28.5 MPa

**Resistance to carbonation (dk < control concrete (0.45 MC) UNI EN 13295:** Fulfilled requisite

**Thermal compatibility Part 1 (adhesion after 50 un/freezing cycles) UNI EN 13687-1:** 2.8 MPa

**Thermal compatibility Part 2 (adhesion after 30 thunder cycles) UNI EN 13687-2:** 2.83 MPa

**Thermal compatibility Part 4 (adhesion after 30 dry thermal cycles) UNI EN 13687-4:** 3.1 MPa

**Slipping resistance (UNI EN 13036-4):** Dry: class II; Wet: class I

**Pull-out strength of steel bars - displacement at 75 kN load (UNI EN 1881):** 0.35 mm

**Reaction to fire (UNI EN 13501-1):** Euroclass A1

**Feature, Certifying body, Test method and Certified performance**

**Impermeability, IMM SA (Switzerland), UNI 12390-8:** 7 Barno passage

as well as Bi Mortar Levelling Seal Volteco or a product with equal or superior characteristics.

The technical data must be supported by test certification issued by an accredited official laboratory and/or be subjected to quality control according to ISO 9001.

For further details on the individual products and installation specifications, refer to the relevant technical data sheets which can be downloaded in the updated version on the website [www.volteco.com.](http://www.volteco.com/)

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