

BI MORTAR LEVELLING SEAL

Supply and installation of waterproof, castable, self-levelling, compensated-shrinkage concrete suitable for all uses requiring high-strength 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
- Rebuilding of pile heads and diaphragm walls
- Fixing of anchor bolts of metal rails of gates, cranes and machinery in general
- Filling of rigid joints between precast elements
- 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 4 (adhesion after 30 dry thermal cycles)		UNI EN 13687-4	3.1 MPa
Thermal compatibility Part 2 (adhesion after 30 thunder cycles)		UNI EN 13687-2	2.83 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	Certified performance (**)
Impermeability	IMM SA (Switzerland)	UNI EN 12390-8	7 Bar: no passage
Radon diffusion coefficient	CZECH TECHNICAL UNIVERSITY IN PRAGUE	ISO/TS 11665-13	6,5 E-9 m²/s

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.

The product must have the CE marking and be used according to the manufacturer's prescriptions.

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.