

# FLOWMIX 70

Supply and installation of pourable shrinkage compensated cementitious mortar also suitable for the execution of high thickness castings if mixed with gravel.

The cement mortar must be applied with a minimum thickness of 4 cm, without interruption and, in the absence of confinement, with adequate contrast reinforcement.

Thicknesses between 2 and 4 cm can be carried out provided that the substrate has been roughened and CONNECTOR 20 pins have been used to counteract the expansive action.

The product must be used for:

- To structurally restore columns and beams with concrete casting
- To anchor bolts and metal structures
- To cast metal rails of gates, cranes and machinery in general
- To fill rigid joints between prefabricated elements
- To reconstruct pile heads and diaphragms
- To repair industrial, road, airport and car park reinforced concrete flooring
- Resurfacing (for example elevator pits)

The material must have the following characteristics:

EC Certification according to EN 1504-3 - Class R4

EC Certification according to UNI EN 1504-6

Specification	Test method	Values
<i>Flexural strength after 28 days</i>	UNI EN 196-1	11,9 Mpa
<i>Compressive strength after 28 days</i>	UNI EN 12190	81.8 MPa
<i>Adhesion to the concrete</i>	UNI EN 1542	3.83 MPa
<i>Compressive modulus of elasticity after 28 days</i>	UNI EN 13412	34.7 GPa
<i>Resistance to carbonation</i>	UNI EN 13295	fulfilled requisite
<i>Capillary absorption coefficient</i>	UNI EN 13057	$0.02 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$
<i>Thermal compatibility Part 1 (adhesion after 50 un/freezing cycles)</i>	UNI EN 13687-1	3.41 MPa
<i>Thermal compatibility Part 2 (adhesion after 30 thunder cycles)</i>	UNI EN 13687-2	4.52 MPa
<i>Thermal compatibility Part 4 (adhesion after 30 dry thermal cycles)</i>	UNI EN 13687-4	3.87 MPa
<i>Impermeability</i>	UNI EN 12390-8	7 Bar: no passage
<i>Chloride ions content</i>	UNI EN 1015-17	0,01%
<i>Pull-out strength of steel bars - displacement at 75 kN load</i>	UNI EN 1881	0,35 mm

as well as Flowmix 70 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).