

# EPOXCEMENT MALTA

## WATERPROOFING MORTAR BASED ON EPOXY RESINS IN AQUEOUS DISPERSION AND HYDRAULIC BINDERS

IN COMPLIANCE WITH THE REQUIREMENTS OF THE 1504-2 EUROPEAN STANDARD:  
Product for humidity control, chemical resistance, increase in resistivity

### Features

- Adheres to concrete even if damp.
- Applicable from 2 to 5 mm in one coat even vertically.
- Waterproofs and protects concrete surfaces, stone materials and bricks even if damp and resists to water counterthrust up to 7,5 bars.
- Resistant to thermal shocks.
- It is possible to apply the product by spray.
- Application temperature from +5°C to +45°C.
- Operating temperature from -35°C to +100°C.

### Field of use

- Regularization and waterproofing of new or damaged concrete surfaces (horizontal and vertical).
- Regularization and sanitation of brick and stone wall surfaces before the application of plaster.
- Regularization, reparation and waterproofing of concrete tanks and pipes.

### Application

#### Support preparation

Support preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and must have a bond strength of at least 1,5 MPa. In any case it is necessary, depending on the type of surface, to make a preparation of the flooring by sand-blasting, milling, shot peening, smoothing or sanding.

Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.

#### Product preparation

Two-component product to be mixed thoroughly at the moment of employment with an helicoidal stirrer with a low rpm.

Mix component B with component A, then thin with water from about 5 to 10 % (depending on the application tool) calculated on the weight of the whole kit (A+B).

Add component C while stirring and mix until complete homogenisation for five minutes.

#### Application

**EPOXCEMENT MALTA** must be applied by spray gun or trowel regulating the dilution water, so to obtain the desired texture depending on the application type.

Tools cleaning

The tools must be cleaned with water after use.

**Technical data**

Colour	Grey	-
Density	2,05 ± 0,05 kg/l	EN ISO 2811-1
Pot life at 22°C	75 ± 10 minutes	EN ISO 9514
Theoretical consumption	2,1 kg/m <sup>2</sup>	-
Resistance to temperature shock	No surface alteration, cracking, blistering, bubbling > 3,8 MPa	EN 13687-5
Compressive strength	46 ± 2 MPa	EN 13892-2
Flexural strength	9 ± 1 MPa	EN 13892-2
Bond strength by pull-off	> 4,0 MPa	EN 1542
Compatibility on wet concrete	No blistering, no cracking, no flaking > 3,5 MPa	EN 13578
Water vapour permeability	s <sub>D</sub> < 5 m	EN 7783-1
Liquid water permeability	w < 0,1 kg/m <sup>2</sup> x h <sup>0.5</sup>	EN 1062-3
Chemical resistance	Sodium chloride 20 % Class II	EN 13529

**Curing**

At 22°C, 50 % R.H.	
- Touch dry	4 hours
- Insensible to rain	5 hours
- Overcoating	72 hours
- Complete coating	28 days


**Storage**

The product in the original sealed packaging, stored in a dry and sheltered place at a temperature comprised between +5°C and +35°C, is preserved for 12 months. Frost damages the product.

**Safety**

In the application of this product it is advisable to use goggles, rubber gloves and all the PPE required by the laws on the use of chemical substances.

For all the additional information consult the material safety data sheet of the product.

		
<b>PERFORMACES IN COMPLIANCE WITH CERTIFICATION CE EN 1504-2</b>		
<b>Product type 3700</b>		<b>DoP 137</b>
<b>Characteristics</b>	<b>Product performance</b>	<b>Test Method</b>
Water vapour permeability	Class I	EN ISO 7783-2
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0.5}$	EN ISO 1062-3
Bond strength by pull-off	$> 2,0 \text{ N/mm}^2$	EN 1542
Resistance to temperature shock	No cracking, blistering, bubbling $> 2 \text{ N/mm}^2$	EN 13687-5
Resistance to severe chemical attack	CR12 (Class II)	EN 13529
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	EN 13501-1
Compatibility on wet concrete	No blistering, no cracking, no flaking $> 1,5 \text{ N/mm}^2$	EN 13578

CR12: Sodium chloride at 20 %

*The information contained in this sheet are based on our knowledge and current experiences. They cannot in any case imply a guarantee by our side, nor responsibility for the use of our products, since the usage conditions are not under our control. Before using the product it is thus advisable to make practical tests to confirm the suitability for the intended use in the real operating conditions. ITALCHIMICA S.r.l. reserves the right to modify technical features, descriptions and illustrations in any moment. The company declines any civil liability for the non-compliant or inappropriate employment of the product compared to what is disclosed in the technical data sheet.*