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Ref.	Descripción
E00013	ETICS MORTAR
EP0023	ETICS MORTAR WITH FIBRES

## DESCRIPTION

- Dry mortar based on cement (according to RC-16), aggregates and chemical additives, specially formulated for compliance with its characteristics.
- It has the CE marking by virtue of that stated in Regulation (EU) 305/2011 on construction products and in accordance with standard EN 998-1.



## FIELD OF APPLICATION

- Mortar specially designed for the adhesion and protection of expanded polystyrene insulation panels in External Thermal Insulation Systems (ETICS).
- The bases on which the insulation may be adhered, both in new and restoration works, are:
  - Ceramic bricks.
  - Concrete blocks.
  - Cellular concrete blocks.
  - Concrete walls.
  - Precast concrete panels.
  - Expanded clay blocks.
  - Mortar walls.

## PROPERTIES

- Excellent adherence between plates and the base.
- Water-repellent.
- Steam permeable.
- Impact resistant.
- High workability.
- Grey colour.

## METHOD OF USE

### Preparation of the Support

- It must be resistant and stable.
- It must be free of dust, grease, oil, poorly adhered paint, release agents, bituminous waste, etc.
- In the case of very absorbent bases or hot weather, it is recommended the base is moistened, not sodden, previously.
- It must be flat and smooth in order to guarantee a correct adhesion. If the base shows irregularities, degraded areas or cavities, these will be repaired previously using **MASTEC® REPAIR MORTAR**.

### Mixing the Product

- Mix with a mechanical mixer (at low revs) with approximately 17±2% of water until a homogeneous mixture without lumps is achieved.
- Leave it to rest for 5 minutes before applying.
- Do not re-mix or add more water after the first mixing.

### Applying the Product

As insulation plate adhesive:

- Spread the mixture along the perimeters and 6-8 cm blobs in the centre of the side of the plate that is to come in contact with the base, guaranteeing the greatest contact possible.
- The mixture may also be spread along the entire surface of the plate using a toothed float.
- Attach the panel to the base pressing with the aid of a float to guarantee a correct adhesion.
- Install the mechanical fastening once the adhesive hardens.

As insulation plate protection:

- The insulation plate protection coating will be performed 24 hours after its adhesion.
- With the aid of a float, a first layer will be spread out over which a reinforcement mesh will be placed while the mixture is still fresh. The meshes will overlap 10 cm over each other.
- Once the first layer dries up (4-6 hours according to the environmental conditions), the final second layer is applied.
- The recommended application thickness is 1.5 to 2 mm per layer.

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- The final finishing sought can be applied over this protective coating, once it is dry and hard.

## RECOMMENDATIONS AND PRECAUTIONS

- Application temperature will be between 5 and 30°C.
- It is convenient to moisten the support at temperatures over 20°C.
- Avoid raining, freezing, strong winds and exposing to intense sunlight application.
- Never apply on surfaces with extreme temperatures.
- Must be used mixed exclusively with water. Any other addition (aggregates, additives, etc.) may modify the behaviour and characteristics of the product.
- The existing expansion joints will be respected.

## CONSUMPTION

- The material consumption will be of approximately 3-4 kg/m<sup>2</sup> as adhesive and 5-6 kg/m<sup>2</sup> as protection.

## SAFETY AND HYGIENE

- Keep out of reach of children.
- Avoid breathing dust/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.
- Dispose of contents/container as the implementing regulations.
- For more information check the Product Safety Data File.

## TECHNICAL CUSTOMER SERVICE

- It is recommended the appropriate product is used for each application in accordance with the Technical File.
- Please check with our Technical Customer Service in the case of any doubt regarding the selection, handling or application of the different products.
- Our Technical Department will deal with and study each case if it were necessary to use a specific product, according to the use, colour, specifications, etc., or for placing special pieces or formats.

## SUPPLY

- 25 kg paper sack with plastic film.

## STORAGE AND CONSERVATION

- The product maintains its characteristics in a dry place protected from freezing, humidity, direct sunlight, etc.:
  - Sack: 12 months.

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## TECHNICAL CHARACTERISTICS

### BASIC CHARACTERISTICS – CE MARKING EN 998-1

Specification	Value	Test Method
Adhesion strength (concrete)	$\geq 0.5 \text{ N/mm}^2$ – FP: B	UNE-EN 1015-12
Steam permeability	$\mu$ 5/20	UNE-EN 1745
Thermal conductivity ( $\lambda_{10, dry}$ )	$\leq 0.67 \text{ W/m}\cdot\text{K}$	UNE-EN 1745
Water absorption	$W_2 \leq 0.20 \text{ kg/m}^2\cdot\text{min}^{0.5}$	UNE-EN 1015-18
Reaction to fire	Class F	Decisión 96/603/CE
Release of dangerous substances	Check the Safety Data Sheet	-

### OTHER TECHNICAL DATA

Specification	Value	Test Method
Compression strength	$\geq 10 \text{ N/mm}^2$	UNE-EN 1015-11
Adhesion strength (polystyrene)	> polystyrene plate cohesion	ETAG-004
Approximate water for kneading	$17 \pm 2 \%$	-
Apparent dust density	$1.4 \pm 0.1 \text{ g/cm}^3$	NLT-157/94
Application temperature	$5^\circ\text{C} - 30^\circ\text{C}$	-

#### NOTE:

Dosage and application outside that described in this file will exclude our responsibility regarding the product and its application.

The results stated were obtained in tests performed under standard conditions and may vary in terms of on site installation conditions.

Please contact our Technical Department for more information.

All the product application indications are based on our current experience and knowledge, with the client being responsible for the final study for on site installation.

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