



Systems for

Thermal

Insulation



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

TECNOBOND ETA 01

WATERPROOF FAÇADE MORTAR FOR APPLICATION AS BONDING MORTAR FOR POLYSTYRENE AND MINERAL WOOL INSULATION BOARDS.

Description Polymer modified cementitious bonding mortar and fairing coat as part of thermal insulation and renovation systems for façades. Combined with acrylic decorative plasters for a colour finish provides a highly attractive, efficient and inexpensive solution for façades requiring additional insulation.

- Advantages and characteristics**
- Not flammable , not containing solvents.
 - Weather-proof , high water vapour diffusion.
 - Longer exposure time for application.
 - Excellent bonding mortar for mineral wool and polystyrene or polyurethane insulation boards.
 - Can be applied by trowel or conventional spraying equipment, time saving.
 - Mixing only with water, contains re-dispersible acrylic polymers in powder to increase durability and adhesion performances.
 - Does not require post-curing.
 - Can be finished in short time with decorative mineral or synthetic plaster systems. The Project Assistance and Promotion Office of Tecnochem Italiana is available for the customers for any information or assistance.

Fields of use Fixing of insulating panels on façades, Coating and waterproofing of insulation panels on façades. Part of renovation, sanitation and decoration systems. For the embedding of reinforcement fabrics.

Method of use Preparation of the substrate :

- The substrates must be clean and sound. Remove all the incoherent parts by hand or mechanically, and clean by means of sandblasting or water/sandblasting in order to remove all traces of oil, grease, demoulding oil residues,..etc.
The boards shall be properly fixed to prevent any movement while the mortar is still fresh.

Application :

- Mix the content of a bag of 25 kg with 6,75 (27%) kg clean water, till a lumpfree and easy to apply mortar is obtained. The liquid demand can vary with the climatic conditions and type of application (had applied or by spraying). The product can be mixed by hand using a paddle mixer attached to a slow speed concrete drill or by horizontal axes mixer equipment.
- Allow the mix to saturate for a few minutes, remix for another 30 seconds, and the material is ready for application.
- Apply by smooth or dented trowel on smooth substrates. Push the panel firmly to the substrate and position. Avoid to move the panels once in place for a few minutes, in order not to disturb the initial wet bond. If required, the panels can be fixed by using plugs once the mortar is hardened.
- For levelling of the surface, apply by trowel or spray a first coat of a few millimetres on the fixed panels, and immediately after, insert the net RETEVER in the fresh mortar. Apply a second coat once the first coat cured. Overlap by 10 cm.
After 24 hours, the application can be finished by means of a synthetic or mineral plaster



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- Remark**
- Do not apply when temperature is below + 5°C.
 - Do not apply more than 3 mm thick layer for each layer.

When storing: Information according to 2003/53/CE.

Storing possible during 12 months in original, unopened packaging, kept dry and protected, at temperatures between +5°C and +35°C.

- Do not use the contents of already opened sacks if they seem to have turned lumpy.

Packaging 25 Kg bags

Consumption Bonding of insulation panels : about 3-5 kg/m²
Reinforcing of hard foam panels : about 3-5 kg/m²
Reinforcement of mineral wool panels : about 5 kg/mm²

Technical characteristics (typical values) Initial setting time: over 8 hours at 20°C.

Potlife : >1 hour

Open time on concrete : >30 min. Open time on polystyrene : >30 min.

• Compressive strength	N/mm ²	10 (28 d.)
• Flexural strength	N/mm ²	4 (28 d.)
• Elasticity modulus – static	N/mm ²	7.300 (28 d.)
• Elasticity modulus – dynamic	N/mm ²	10.400 (28d.)
• Adhesion to the concrete support	N/mm ²	> 1,0 (28 d.)
• Air content	%	5
• Resistance to CO ₂ penetration	μ	2.000
• Resistance to water vapour diffusion	μ	91
• Freeze and thaw resistance		resistant

• Type of conglomerate		Adhesive and fairing coat
• Number of components		mono
• Thickness suggested	mm	2÷3
• Application		By hand - spray
• Wet/damp curing		NO
• Sheltered curing		SE

• Air content		
Dosage / yield	Kg/m ² /m	1,5 – 1.6 m

Safety indications Read carefully the safety indications on the packaging, or consult the relevant safety datasheet of this product.

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.

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