

# Ecological Exterior Insulation Plaster

Due to the porous and natural aggregates in its properties, it provides heat-water-sound and fire insulation with a single layer on to the surface it is applied. Prevents perspiration because of its breathability. It does not contain carcinogenic substances. It is manufactured from natural ingredients and does not harm the environment or human health. No thermal bridges are formed, as it does not require assembly with joint, intermediate layer or dowel. Available to use in 4 seasons.



## • PRODUCT SPECIFICATIONS

- **Heat Conductivity** 0,052W / mK
- **Sound Insulation Structure** 22 db (3cm / 500hz)
- **Fire Resistance** A1 Fireproof
- **Compressive Strength** 0.3 N / mm<sup>2</sup>
- **Adhesion Strength** 1.5 N / mm<sup>2</sup>
- **Density** 313 kg / m<sup>3</sup>
- **Water Absorption Coefficient** 0.355 kg / m<sup>2</sup> W1
- **Bond Strength** 0, 12 N / mm<sup>2</sup> FP: B
- **Consumption** 4-4.5 kg / m<sup>2</sup> / 1 cm
- **Applicable Thickness** 2-4 cm
- **Drying Time** 1 day at 23 ° C (50% humidity)
- **Appearance** White-Grey
- **Application Temperature** + 5 / + 45 ° C
- **Application Process** Applied with steel trowel or spraying machine
- **Applied Surfaces** Concrete, brick, aerated concrete, plaster, pumice etc.

- **Packaging shape** 12kg craft paper bag
- **Storage Life** 12 months when stored in a dry place

## • **PRODUCT APPLICATION PREPARATIONS**

### **SURFACE PREPARATION**

In order to provide a better performance from the product, the dirt, oil, dust, swollen paint, lime, construction residues and so on must be removed from the application surface. The surface should be slightly moistened after making the surface suitable for application.

### **PRECAUTIONS**

As Bormag Ecological Exterior Insulation Plaster is a water based product, the weather conditions during the preparation of mortar should be considered before application. Measures should be taken against frost before and after the application on the surface. The water used for the mortar should be mixed in the exact specified amount and all of the bag should be consumed at once after opening.

### **MIXING METHOD**

10-12 litres of clean water is added to the boat where the mortar will be prepared and 12 kg Bormag Ecological Exterior Insulation Plaster is added. The mortar vessel where the mixture will be prepared should be cleaned thoroughly beforehand and the residues accumulated on the edge of the vessel should be stripped and mixed again with a steel trowel. Then mix with a 500-600 rpm mixer for 4-5 minutes until homogenous. After mixing, the mortar is left to rest for 1 minute and if necessary, another 1 litre of water is added according to its consistency and mixed again and made ready for application. The useful life of the prepared mortar is 6 hours.

### **APPLICATION**

Bormag Exterior Insulation Coating can be applied with steel trowel or spraying machine. Fixing the battens will determine the thickness desired. Apply the ready mixed Bormag Exterior insulation Coating onto the surface with trowel or machine between the battens and level it. Then remove the battens and fill the gaps with the coating and leave it to dry for 24 hours. Second coating can be applied after 24 hours.

Recommended thickness for each coating is between 10mm and 20mm. After the final coating the surface is ready for painting if desired.

