



# NOVABOND THERMO

## Thermal insulation board adhesive and coating

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- ▷ **Excellent workability**
  - ▷ **Fiber reinforced**
  - ▷ **High thixotropy**
  - ▷ **Suitable for various types of substrates**
  - ▷ **Resistant to weather conditions**
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### Description

NOVABOND THERMO is an extremely easy-to-use cement mortar with appropriate particle size, enriched with synthetic resins, fibers, and special additives. Its composition makes it ideal for adhering thermal insulation boards, such as expanded or extruded polystyrene, mineral wool, polyurethane, etc., to the external surfaces of buildings. It can be used on surfaces made of concrete, plaster, or brickwork.

When combined with NOVATHERM NET fiberglass mesh, it is used to coat polystyrene thermal insulation boards, creating an ideal substrate for the subsequent application of plaster.

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### Certifications

CE marking and Declaration of Performance (DoP) C13151-CRP-2350140 as general-purpose rendering/plastering mortar for internal and external use according EN 998-1.

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### Typical Applications

NOVABOND THERMO is suitable for bonding thermal insulating boards such as:

- Expanded and extruded polystyrene

For levelling thermal insulating boards prior to the application of:

- Organic & inorganic plasters
- PLANOCOLOR GRANULATES decorative coatings

For application in various substrates such as:

- Concrete, cement screeds, brick walls
- Renders and wall brick mortars
- Cement and gypsum boards (properly primed)

## Technical Data

### Product Identification

Consistency	Powder
Color	White
Chemical base	Portland cement, aggregates, special additives
Granulometry	D <sub>max</sub> : 1,2 mm
Density	1,4 ± 0,1 kg/L

### Application Data (+23°C % & 50% R.H.)

Mixing ratio	5,5 - 6,0 L water per 25 kg
Density of fresh mortar	1,65 ± 0,05 kg/L
Pot life	> 4 hours
Application temperature	from +5°C up to +35°C

### Final Performances according to EN 998-1:2016

Compressive strength	≥ 10 N/mm <sup>2</sup>
Adhesion	≥ 1,0 N/mm <sup>2</sup>
Water capillary absorption	≤ 0,20 kg/m <sup>2</sup> ·min <sup>0,5</sup>
Water vapor diffusion coefficient (μ)	15
Thermal conductivity coefficient (λ <sub>10,dry,mat</sub> )	0,45 W/mk
Reaction to fire	A1

## Application Procedure

### Substrate Preparation

Cement based substrates must be compact, without cracks, free of dust, salts, grease and any other materials that could reduce adhesion of NOVABOND THERMO to them. Concrete substrates should be mechanically prepared, for example, by grinding to achieve a uniform surface of open porosity. For gypsum-based substrates, it is necessary to prime the substrate with NOVAPRIMER prior to the bonding of the insulating boards. In cases where the application is done upon absorbent substrates such as concrete, cement screeds etc. properly saturate the substrate with water. On surfaces with reduced absorbency, the application of the quartz primer PLANO CONTACT is recommended. For additional information, refer to the relative Technical Data Sheets of the products.

### Preparation of the mix

Mix the contents of a bag of NOVABOND THERMO (25 kg) with 5.5 - 6.0 liters of clean water using an electric mixer at low speed for at least 3 - 5 minutes. The mixing should be done until a homogeneous mixture is achieved. In warm weather conditions and in general, it is advisable not to expose the materials to sunlight (dust and liquids) before use, as this significantly reduces the open application time of the mixture. Wetting the substrate before application is recommended.

### Application of the mix

For flat substrates, apply NOVABOND THERMO directly onto the back of the thermal insulation board using a trowel. Use a notched trowel to spread the adhesive so that it is evenly distributed over the entire surface.

For uneven substrates, apply the adhesive with a trowel in spots at the center and around the perimeter of the thermal insulation board. Apply pressure to place the thermal insulation board in the desired position.

As a smoothing coat, apply the adhesive to the entire surface using a notched trowel and place the alkali-resistant fiberglass mesh NOVATHERM NET onto the wet surface. Embed the mesh in the fresh mixture using the smooth side of the trowel. Apply a second coat after 12 - 24 hours.

### Recommendations

- Do not apply when ambient temperature is less than +5°C or higher than +35°C
- Do not exceed 15 mm of thickness in one single layer
- Do not apply upon metal, wood or deformable surfaces
- Do not apply upon surfaces such as polyurethane coatings, paints, acrylics and substrates subjected to big movements
- Do not apply upon PVC and bitumen membranes and in general materials which polymerize in the long run
- Do not apply upon loose substrates or substrates not properly cured
- Do not apply upon non-absorbent substrates not properly primed
- Do not apply upon existing expansion or movement joints of the substrate
- Do not apply the mixture under direct sunlight exposure and/or strong wind
- Do not exceed the recommended quantity of mixing water
- Protect the application surface from rain or frost the first 24 hours
- Do not add cement, gypsum, lime or other materials that might affect the properties of the mortar
- The application must be performed by a professional installer

### Consumption

For bonding thermal insulation boards

Spot bonding: 2-4 kg/m<sup>2</sup>

Applied evenly covering the back of the insulation board: 4-6 kg/m<sup>2</sup>

For smoothing and covering of the thermal insulation boards

1,4 kg/m<sup>2</sup> per mm of thickness, recommended total thickness 4 mm in two layers and by incorporating fiberglass mesh NOVATHERM NET

**Cleaning**

Tools, buckets, coverings etc. can be cleaned with water as long as NOVABOND THERMO is still fresh. Once the material dries, cleaning can be done only by mechanical means.

**Storage**

NOVABOND THERMO remains stable for 12 months from the production date in the original sealed packaging stored in a dry place and temperature between +5°C και +35°C.

**Packaging**

Paper bags of 25 kg

**Safety Instructions**

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety related data.

**Legal Notes**

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

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