



# *PROTHERM 2 IN 1*

## *950*

*Cement Based Thermal Insulation Board  
Adhesive & Plaster Mortar*

### **PRODUCT DESCRIPTION**

It is a cement based, powdered polymer modified general purpose surface plaster and adhesive mortar that provides excellent adherence for thermal insulation boards (XPS, EPS, Rock Wool etc.) with fiber additives.

### **ADVANTAGES:**

It is easy to apply, creates a smooth surface.

It has high holding power.

It is a breathable product.

It is not affected by temperature differences and frost at the end of the setting period.

Provides ease of application, does not require much labor.

It is used as a system component in BARS PROTHERM Exterior Thermal Insulation System.

### **PRODUCT INFORMATION:**

Chemical Base	Cement-Based
Appearance / Color	Powder / Cement Gray

### **PERFORMANCE:**

(23°C, 50% RH)

Dry Bulk Density	1350 ± 200 kg/m <sup>3</sup> TS EN 1015-10
Compressive Strength 28 days	≥ 4.0 N/mm <sup>2</sup> TS EN 1015-11
Flexural Strength 28 days	≥ 2.0 N/mm <sup>2</sup> TS EN 1015-11
Water Absorption: (after 30 minutes)	≤ 5 gr TS EN 12808
Water Absorption: (After 240 minutes)	≤ 10 gr TS EN 12808

These values have been obtained as a result of laboratory experiments carried out in our company and are valid for the performance of the finished applications at the end of the full drying period. Since the temperature and humidity values in the construction site environment and the application surfaces and areas will vary, the values may change.



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### **USAGE AREAS:**

It is used for both purposes, for plastering XPS (extruded polystyrene), EPS (expanded polystyrene), polyurethane, rock wool and similar sheets to exterior walls, walls, ceilings and floors, and for adhering these products.

On interior and exterior facades; It can be easily used on mineral surfaces such as brick, cement-based plaster, gas concrete etc.

### **APPLICATION INSTRUCTIONS:**

#### **For Adhesive Use:**

Surface; It should be cured, dry and solid. It must be cleaned of residues such as oil, grease, dirt, paint, salt vomit that will prevent adhesion. The surface must be rough. If there are significant defects on the application surface, they should be repaired with PROREPAIR THIN or PROREPAIR, PROREPAIR PLUS at least 24 hours in advance.

#### **For Plaster Use:**

The Heat Insulation board must be solid, well adhered to the underlying surface, clean and dry. The gaps between the boards should be filled with the same insulation material or foam according to the width.

Slowly pour 25 kg of PROTHERM 2 in 1 onto 5 – 6 liters of water, and mix it with a low-speed mixer until no lumps remain. Let the mortar rest for 5-10 minutes to mature. It is mixed again before starting the application.

#### **Application Equipment:**

Hand Mixer  
Trowel  
Steel Trowel  
Notched Trowel



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### **Application:**

#### **For use for bonding:**

If the application will be made pointwise; It is applied as a 5 cm wide strip in the form of a frame around the thermal insulation board. Then, 2-3 pieces of 8-10 cm diameter heaps are applied in the middle of the panel as points.

If the application will be made superficially; Spread the mortar over the entire surface of the insulation board with an 8 mm square toothed notched trowel.

The panel is attached to the wall by pressing. During the bonding process, it is checked with a gauge or spirit level whether the boards are at the same level. Depending on the ambient temperature and surface properties, mechanical anchoring is done after at least 24 hours. After the mechanical doweling process is done, the plastering process is started. For this, the mixture is prepared in the same way.

#### **For Plaster Use:**

The first layer of plaster is combed with a notched trowel with a tooth thickness of 4x4 mm. Before the plaster mortar dries, the reinforcement mesh is laid on the surface with the help of a steel trowel. At the joints of the net, approximately 10 cm of net is overlapped. After the net is embedded, the second layer of plaster is applied using a flat trowel. Smoothing is done with a steel trowel. Higher layer thicknesses can be selected where necessary. The prepared mortar should be consumed within 3 hours, the expired mortar should be disposed of. After waiting for the full drying time, the surfaces are primed and the decorative coating process is continued.

#### **LIMITATIONS:**

Please obey to the application instructions to obtain optimum quality. The application should be done between +5 C and +30 C. Application should not be made in hot, rainy and windy weather. Application should not be made on surfaces with frost risk. The product should be protected from rain, water, frost and adverse external factors until it cures (28 days).

#### **CONSUMPTION:**

Adhesive purpose: 4-5 kg/m<sup>2</sup>

For plastering: 5-6 kg/m<sup>2</sup>.

#### **PACKAGING:**

In 25 kg kraft bag,

(64 pieces per pallet, 1600 kg)



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**COLOUR:**

Grey.

**SHELF LIFE:**

It is 1 year from the date of production in its original packaging in a humidity-free, dry and cool (temperature between +5 C and +25 C) environment. The lid of the containers should be tightly closed when not in use. It should be kept away from moisture.

**STORAGE CONDITIONS:**

It should be stored in its unopened original package, in a moisture-free, dry and cool (temperature between +5 C and +25 C) environment.  
It should not be left under direct sunlight.

**SECURITY:**

Since it is cement based, do not breathe the dust, it is harmful to the skin and eyes.

*DEKOSTAR San.ve Tic.Ltd. Şti. is not responsible for any application errors that may occur if the product is used for purposes other than its intended use or if the above-mentioned application conditions and recommendations are not followed. Dekostar reserves the right to change its products. Users should consider the latest edition of the Technical Data Sheet of the relevant product.*