

# 950 PROTHERM 2 IN 1



## **Cement Based Thermal Insulation Board Adhesive and Plaster Mortar**

### **PRODUCT DESCRIPTION**

It is a fiber-added, cement-based, powder polymer-modified adhesive and general-purpose surface plaster mortar that provides excellent adherence to thermal insulation boards (XPS, EPS, Rock Wool, etc.).

### **FEATURES**

It is easy to apply and 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. It provides ease of application and does not require much workmanship. It is used as a system component in the BARS PROTHERM Exterior Thermal Insulation System.

### **PRODUCT INFORMATION**

Chemical Structure                      Cement Based  
Appearance / Color                      Powder / Cement gray

### **PERFORMANCE**

(23°C, 50% Relative Humidity)

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

### **USAGE AREAS**

It is used for both purposes in plastering XPS (extruded polystyrene), EPS (expanded polystyrene), polyurethane, rock wool and similar sheets on exterior facades, walls, ceilings and floors, and in adhering these products. On interior and exterior facades; It can be easily used on mineral surfaces such as brick, cement-based plaster, aerated concrete, etc.



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### **APPLICATION INSTRUCTIONS**

#### **When Used for Adhesive Purposes :**

Surface; It must be cured, dry and sound. It should be cleaned of any residues such as oil, grease, dirt, paint, salt vomit that would prevent adhesion. The surface should be rough.

#### **For Plastering:**

Thermal 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 into 5 - 6 liters of water and mix with a low speed mixer until no lumps remain. The mortar is left to rest for 5-10 minutes to mature. It is mixed again before application.

#### **Application Equipment**

Hand mixer - Trowel - Steel trowel - Notched trowel

### **APPLICATION**

#### **For adhesive use:**

**If the application will be done point by point;** It is applied as a 5 cm wide strip in the form of a frame around the thermal insulation board. Then, it is applied pointwise in the form of 2-3 8-10 cm diameter clusters in the middle of the panel.

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

The panel is adhered to the wall by pressing. During the gluing process, check whether the boards are at the same level with a gauge or spirit level. Depending on the ambient temperature and surface properties, mechanical doweling is done after at least 24 hours. After the mechanical doweling process is completed, the plastering process begins. For this purpose, the mixture is prepared in the same way.

#### **For Plastering:**

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



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### **LIMITATIONS**

To obtain optimum quality, please adhere to the application instructions. Application should be made between +5 C and +30 C. Application should not be made in hot, rainy and windy weather. Application should not be made on surfaces that are at risk of frost. The product should be protected from rain, water, frost and negative external factors until it is cured.

### **CONSUMPTION**

For adhesive purposes: 4-5 kg/m<sup>2</sup>

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

### **PACKAGING**

In a 25 kg kraft bag, (64 pieces on a pallet, 1600 kg)

### **SHELF LIFE**

It is 1 year from the date of production in its original packaging in moisture-free and dry environments (temperature between +5 C and +25 C). The mouth 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 packaging in a moisture-free, dry and cool environment (temperature between +5 C and +25 C). It should not be left under direct sunlight.

### **SAFETY**

Since it is cement based, do not breathe the dust and do not contact it with skin or eyes. Use mask. Use protective gloves, glasses and clothing. In case of eye contact, consult a doctor immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

### **LEGAL NOTES**

*Our technical data sheet is DEKOSTAR LTD., which has a wide range of usage areas. ŞTİ. It has been prepared to give general information about the products and to show the technical features of the products. It is a recommendation and this information is about the correct application, ground, air, equipment, etc. It is valid under the conditions and when the products are stored under the recommended conditions.*

*DEKOSTAR LTD. ŞTİ. Since it cannot control the conditions under which its products are used, it does not accept any responsibility for the application result and does not guarantee it. The user of the product must test the suitability of the product before using it.*

*DEKOSTAR San. will be liable for application errors that may occur if the product is used for purposes other than its intended purpose or if the application conditions and recommendations stated above are not followed. and Tic. Ltd. Ltd. is not responsible and has the right to change the features of its products without notice. Users should always refer to the latest edition of the Product Technical Data Sheet for the relevant product.*



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