

**Thermal Insulation Systems / Cemend Based Plasters****STRAFIX****Thermal Insulation Board Adhesive and Plastering Mortar****DESCRIPTION**

Cement based, polymer added, high performance, flexible **adhesive and plastering** mortar for thermal insulation boards.

**APPLICATION AREAS**

- Indoor and outdoor
- Adhesion and plastering of thermal insulation boards (EPS, XPS and stonewool).

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Grey colored fine powder
<b>Powder Density</b>	~ 1.55 kg/L
<b>Water Mixing Ratio</b>	5.5 – 6.5 L water / 25 kg powder
<b>Resting Period</b>	5 – 10 minutes
<b>Pot Life</b>	~ 2 hours
<b>Application Temperature</b>	Between +5°C and +35°C
As an Adhesive Mortar	
<b>Open Time</b>	15 minutes
<b>Fixing with Wall Plugs</b>	Minimum 24 hours later
<b>Plaster Application Time</b>	1 - 2 days later
<b>Adhesion Strength to the Substrate</b>	≥ 0.5 N/mm <sup>2</sup> (TS EN 1015-12)
As a Plastering Mortar	
<b>Flexural Strength</b>	≥ 2 N/mm <sup>2</sup> (TS EN 1015-11)
<b>Compressive Strength</b>	≥ 6 N/mm <sup>2</sup> (TS EN 1015-11)
<b>Adhesion Strength to Thermal Insulation Board</b>	≥ 0.08 N/mm <sup>2</sup> (TS EN 13494)
<b>Water Absorption</b>	≤ 0.5 kg/(m <sup>2</sup> .min <sup>0.5</sup> ) (TS EN 1015-18)
<b>Water Vapor Permeability Coefficient (μ)</b>	≤ 15 (TS EN 1015-19)
<b>Service Temperature</b>	-20°C / +70°C

**ADVANTAGES**

- Easy to apply, provides perfect adhesion
- Resistant to water and frost
- Not affected by temperature changes, is flexible
- Provides high stability, does not sag and crack
- Water vapor permeable, allows the surface to breathe.
- Can directly be overpainted
- Allows adhesion and plastering with a single product.

**CONSUMPTION**

4 – 5 kg/m<sup>2</sup> (Varies depending on the application method.)

## APPLICATION

### PREPARATION OF THE SURFACE

- The surface must be cured.
- The application surface and the boards must be sound and clear of materials which prevent bonding, such as dust, oil, tar, bitumen, paint, silicone, curing agents, detergents and mold release oils.
- Wet the surface and keep it moist.
- When used as a plastering mortar, the boards have to be sound and well-fixed. Fill the gaps between them with **PU 960 Multi-Purpose Polyurethane Foam** or with the same material.

### PREPARATION OF THE MORTAR

- Add 25 kg of STRAFIX Thermal Insulation Board Adhesive and Plastering Mortar in approximately 5.5 – 6.5 liters of clean water and mix with a low speed mixer until there are no lumps.
- Leave the mortar to mature for 5 – 10 minutes, mix again 1 – 2 minutes before use.
- Use the mortar within 2 hours.

### APPLICATION

#### If used as Adhesive Mortar:

- **Method of Bonding on the Whole Surface:** Apply STRAFIX Thermal Insulation Board Adhesive and Plastering Mortar on the whole surface of the thermal insulation board with a trowel or an appropriate notched trowel. (This method is preferred on smooth surfaces).
- **Method of Applying As Band and Spots:** Apply STRAFIX Thermal Insulation Board Adhesive and Plastering Mortar on all sides of the thermal insulation board as a band and on the mid parts as spots with the help of a trowel. (This method is preferred on uneven surfaces).
  - During the application, use a float in bonding the boards.
  - Press strongly on boards for a better bonding and fix them mechanically with wall plugs after 24 hours.

#### If used as Plastering Mortar:

- Apply the first layer with a thickness of about 2 – 2.5 mm with a trowel within 24 hours after fixing thermal insulation boards with wall plugs.
- While the mortar is still wet, press **STRAFIX Plaster Mesh** downwards by stretching and embed it inside the mortar. After the first layer of plaster with mesh has shed its water slightly, apply the second layer of plaster (2 mm thick). After two layers of application, the mesh should be completely covered.
- To prevent cracking, overlap the mesh by 10 cm at the joints.
- Use corner profile with mesh at the corners.
- Wait 2 - 3 days for the paint, depending on the weather conditions and the application thickness.
- If the air temperature is high after the application, moisten the surface until the cement sets.

### CAUTION

- Avoid application in temperatures below +5°C and above +35°C.
- Avoid application on frozen areas, on areas under risk of freezing in 24 hours or on areas open to direct sunlight or wind. In case there is an expectation for snow or extreme cold within 1 week, cancel the application or take protection measures.
- Do not add powder or water to the expired mortar.
- Pay attention not to use boards that lost their properties due to intensive sun exposure.

### PACKAGING

25 kg kraft bags

### SHELF LIFE

Expires in 12 months. Store unopened packages in a dry environments. Stack maximum 10 on a pallet.

**HEALTH AND SAFETY**

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not leave the cover open. Avoid prolonged contact with uncured silicone. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.