

**Thermal Insulation Systems / Cemend Based Adhesives****STRAFIX**<sup>®</sup>

## Thermal Insulation Board Adhesive Mortar

**DESCRIPTION**

Cement-based, polymer added, high performance, flexible adhesive mortar with high stability, for thermal insulation boards.

**APPLICATION AREAS**

- Indoor and outdoor
- Bonding thermal insulation boards (EPS,XPS and stone wool) on concrete, brick, gas concrete and similar surfaces with rough and thin plaster.

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Grey colored fine powder
<b>Powder Density</b>	~ 1.50 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>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>Application Temperature</b>	Between +5°C and +35°C
<b>Aggregate Size</b>	Amount above of 1 mm sieve ≤ 1% (TS EN 1015-1)
<b>Bulk Density of Fresh Mortar</b>	≥ 1000 kg/m <sup>3</sup> (TS EN 1015-6)
<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 the Substrate</b>	≥ 0.5 N/mm <sup>2</sup> (TS EN 1015-12)
<b>Adhesion Strength to the Thermal Insulation Board</b>	≥ 0.08 N/mm <sup>2</sup> (TS EN 13494)
<b>Water Absorption</b>	After 30 minutes; ≤ 5 g; After 240 minutes; ≤ 10 g (TS EN 12808-5)
<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.
- Flexible.
- Provides high stability, does not sag and crack.

**CONSUMPTION**

Varies depending on the application method:  
For EPS and XPS: 3 – 4 kg/m<sup>2</sup>  
For stone wool: 4 – 5 kg/m<sup>2</sup>

## APPLICATION

### PREPARATION OF THE SURFACE

- The surface must be cured.
- The surface must be clear of materials which prevent bonding, such as dust, oil, tar, bitumen, paint, silicone, curing agents, detergents and mold release oils.
- Wet the application surface and keep it moist.
- Repair the imperfections on the surface with **FIXA's** appropriate repair mortars 24 hours before, depending on the depth and structure of the defects.

### PREPARATION OF THE MORTAR

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

### APPLICATION

- Depending on the smoothness of the surface;  
**Method of Bonding on the Whole Surface:** Apply STRAFIX Thermal Insulation Board Adhesive 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 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 bonded with STRAFIX Thermal Insulation Board Adhesive Mortar for a better bonding and fix them mechanically with wall plugs after 24 hours.

### CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Do not add water and powder to the expired mortar.
- To prevent heat transfer, place the thermal insulation boards with no gaps between them.
- Do not use the boards that are exposed to sun and lost their properties.
- Do not apply thermal insulation application directly on building materials such as pumice or brick, but on rough plastered surfaces.

### 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.



## Technical Data Sheet (TDS)

Form No: 5.01 TDS STRAFIX Thermal Ins. Adh.  
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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.