



# KEMATERM 225 W

White adhesive and levelling mortar for thermal-insulation boards

- ▶ Good adhesion
- ▶ Good workability
- ▶ Easy to work with
- ▶ Richness



**PRODUCT DESCRIPTION** Cement-based mixture, with predefined grain sizes of quartz sands and special additives.

**FIELD OF USE** It is used as an adhesive for adhesion of heat-insulating coverings onto various substrates and as a mortar for installation of fibreglass net onto heat-insulating panels (reinforcement) and for final processing (levelling) prior to applying the decorative plaster.

- PRODUCT PROPERTIES**
- Good adhesion
  - Good workability
  - Easy to work with
  - Richness





## PRODUCT DATA

### BASIC INFORMATION

**Appearance** White powder

**Packing** 25 kg in bag (plastificated) / 1200 kg (48 x 25 kg) on pallet

**Storage and expiration date** 12 months from the day of manufacture when stored properly in dry place and in the original, sealed and undamaged packaging. Manufacture date is stamped on the packaging.

### TECHNICAL DATA

**Type of product** Cementitious polymer modified adhesive mortar

**Grain size**  $D_{max}$ : 1 mm EN 1015-1:1999

**Bulk density of powder** 1,22 kg/l

**Weight of fresh mortar** 1,57 kg/l

**Weight of hardened mortar** 1,46 kg/l

#### Flexural strength

**-after 7 days** 3,4 MPa

**-after 28 days** 5,9 MPa

#### Compressive strength

**-after 7 days** 8,4 MPa

**-after 28 days** 16,4 MPa

**Bonding strength after air curing** 0,1 MPa EOTA ETAG 004

## INSTRUCTIONS FOR USE

**CONSUMPTION** approximately 4 kg/m<sup>2</sup> for setting thermal-insulation boards  
approximately 4 kg/m<sup>2</sup> for marking of reinforced plaster (approximately 3 mm thick layer)

**BASE** Surface has to be sufficient evens, carrying and without cracks. It has to be clean, solid, dry, free of all oil, grease, wax, latex compounds, curing compounds, dust and all foreign matter.

**BASE PREPARATION** Irregularities must be levelled with Kematerm 225. High absorptivity surfaces previously grunding (KEMACRYL diluted with water in ratio 1:1, KEMAGRUND S, KEMAGRUND A). Concrete surfaces cleanse of residues of panelled oil.

**MIX RATIO** ca 7 l of water per 25 kg of dry mixture

**MIX TIME** In dry mixture add the clean water and mix, so that homogenous mass of medium plastic consistency without clods is obtained. Leave it to rest for 10 minutes to intumesce and then stir again thoroughly just before using it. If necessary, add some water. Water must not be added to the mortar that is already in the binding phase.

**MIX TOOL** Mix mortar with electrical mixer with a suitable accessory for mixing in a clean container.

### INSTALLATION FIXING POLYSTYRENE BOARDS

After mixing, apply the mortar to the back side of the polystyrene board with the flat side of a trowel to obtain a lineal girdle on the edges and additionally on 4 to 6 different spots in the middle of the board. On very even surfaces apply the mortar on the entire surface of the board with the flat side of a trowel to obtain a solid mechanical bond then comb the mortar with a notched trowel with teeth depth of 4 to 6 mm of sufficient depth to ensure that the boards are covered uniformly over their entire surface.

### MAKING A REINFORCED LAYER WITH EMBEDDED REINFORCING FABRIC

Prior to base coat/reinforcing fabric application, all insulation board must be sanded flush. Apply the base coat to the entire surface of the insulation board. Fully embed the reinforcing fabric in the wet base coat troweling from the center to the edge of the reinforcing fabric so as to avoid wrinkles. The overall minimum base coat thickness shall be sufficient to fully embed the mesh.

**TOOL** Trowel.

**CLEANING OF TOOL** Clean tools immediately after use before mortar hardens. Hardened material on tools can only be removed mechanically.

**USAGE TIME** approx. 4 hours

**COAGULATION** Drying time:

- adhesive layer: cca. 2 days
- reinforced plaster: 1 day for every mm of thickness

## LIMITATIONS

**BASE TEMPERATURE** +5°C min./ +30°C max.

**AIR TEMPERATURE** +5°C min./ +30°C max.

**MATERIAL TEMPERATURE** +5°C min./ +30°C max.

- WARNINGS**
- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50%. Higher temperatures reduce, while lower temperatures prolong those times.
  - Used only recommended amount of water and mix from undamaged packaging. Not to cross the recommended thickness of layer.
  - Protect freshly installed material from freezing, rain and other bad weather conditions. The material should not be used at (surface, air, material) temperatures lower than 5°C.

**Recommendation:** Remains of unhardened/unset material had to be removed in accordance with the legislation.

**Data source:** All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

**Local restrictions:** Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

## SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.



## LEGAL BASE

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