



# KEMATERM 230

Adhesive and levelling compound for heat insulating panels

- ▶ Good adherence
- ▶ Flexibility
- ▶ 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 adherence
  - Flexibility
  - Easy to work with
  - Richness



## PRODUCT DATA

### BASIC INFORMATION

**Appearance** Grey 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**

- v nasutem stanju: 1,26 kg/l
- v svežem stanju: 1,48 kg/l
- v strjenem stanju: 1,41 kg/l

**Flexural strength** EN 1015-11:1999

**-after 7 days** 2,6 MPa

**-after 28 days** 4,7 Mpa

**Compressive strength** EN 1015-11:1999

**-after 7 days** 6,9 MPa

**-after 28 days** 12,6 MPa

**Bonding strength after cure on air** 0,14 MPa EOTA ETAG 004

**Bonding strength after cure on air and water** 0,16 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 cm 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 230. 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** Approx.: 7,0 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 intumescence 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

When adhering to even bases, apply a layer of mortar with a toothed trowel with 7 to 10 mm-sized teeth on the whole surface of the rear side of the board. When adhering to uneven bases, a frame of mortar is made on the edges of the board on its rear side with a trowel and another 3 points are made in the middle of the rear side of the board. After adhesion, the cement must cover at least 40% of the board's surface. Irregularities up to 10 mm can be compensated in the adhesive bed.

### MAKING A REINFORCED LAYER WITH EMBEDDED REINFORCING FABRIC

To make the levelling layer, apply the mortar using a toothed trowel with 7 to 10 mm-sized teeth. Embed the fibreglass levelling mesh in the fresh cement in even bands which overlap each other by at least 10 cm. Smooth out with a toothed trowel the matter which comes out through the mesh. The levelling mesh must lie approximately in the middle of the levelling layer – the thickness of the layer is approx. 3 mm. Protect the layer from drying out too quickly, do not expose to frost.

**TOOL** Trowel.

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

**USAGE TIME** ca. 4 hours

**COAGULATION** Drying time:

- adhesive layer : cca. 2 days
- reinforcing fabric: 1 days 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 were given on the basis of laboratory research. Actually measured data may deviate depending on circumstances during the use on which we cannot influence.

**Local restrictions:** We emphasise that due to specific local regulations reaction of the installed product may be different from country to country. Therefore for the exact description of the use demand the technical sheet for that country.

## PROOFS

**NORMS/STANDARDS** In accordance with Technical approval No. 060-031280

## SAFETY DATA

Irritating, contains cement. May cause sensitization by skin contact. Irritating to eyes, respiratory system and skin. Keep out of the reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves.

More data on storage, handling and use of mix are available in the safety sheet, which contains safety, toxicological and ecological data, and also pay attention to the warnings on the original packaging.



## LEGAL BASE

Information and special recommendations related to consumption and final use of Kema's products were provided in a belief which is based on our knowledge and experience with the products, if they are properly stored, if they are properly handled, and if they are used in normal conditions. In practice, differences between materials, surfaces and actual conditions on building sites are such that from this information or any written recommendations or from any other given advice, we cannot guarantee marketability or adequacy for a particular purpose and we cannot take any responsibility arising from any legal relationship. Ownership rights have to be respected. All orders are subordinate to our current sales and supply conditions. Users should always review the most recent issue of the technical sheet for the product in question, a copy of which is supplied on demand.