

TECHNICAL DATA SHEET

KEMATERM 224

Adhesive and levelling compound for heat insulating panels



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

- Water-vapour permeable
- Good workability
- 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} : 0,6 mm
Bulk density of powder	1,4 kg/l
Minimal layer thickness	2-3 mm
Maximum layer thickness	4 mm

INSTRUCTIONS FOR USE

Consumption

approximately 4,5-5,5 kg/m² for setting thermal-insulation boards
approximately 4-5 kg/m² for marking of reinforced plaster

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 224. 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

5-6 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 5 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. 1,5 hour

Coagulation

Drying time:

- adhesive layer: cca. 3 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

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.