

TECHNICAL DATA SHEET

KEMATERM 215

Adhesive for expanded polystyrene



PRODUCT DESCRIPTION

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

Field of use

For adhesion of expanded polystyrene (EPS) onto brick or concrete substrates and sufficiently cured rendered surfaces.

Product properties

- Good adhesion
- Easy workability
- High yield

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} : 0,4 mm	EN 1015-1:1999
Bulk density	1,2 kg/l	
	fresh mortar: 1,5 kg/l	
	hardened mortar: 1,44 kg/l	
Flexural strength after 3 days	2,5 MPa	EN 13892-2:2003
-after 7 days	2,9 MPa	
-after 28 days	3,8 MPa	
Compressive strength after 3 days	5 MPa	EN 13892-2:2003
-after 7 days	7,3 MPa	
-after 28 days	11,2 MPa	
Sprijemna trdnost po negi na zraku	0,09 MPa	EOTA ETAG 004
Tensile adhesion strenght after water immersion	0,14 MPa	EOTA ETAG 004

INSTRUCTIONS FOR USE

Consumption

approx. 4 kg/m² (line and dot adhesion pattern)

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 215. High absorptive surfaces previously grounding (KEMACRYL diluted with water in ratio 1:1, KEMAGRUND S, KEMAGRUND A). Concrete surfaces cleanse of residues of panelled oil.

Mix ratio

ca. 6,25-7,5 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. Concrete surfaces cleanse of residues of panelled oil. Polystyrene boards install closely together to avoid entering of adhesive between boards (possibility to make the heat bridge). Unevenness on polystyrene boards has to be grind and clean. 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 of sufficient depth to ensure that the boards are covered uniformly over their entire surface.

Tool

Trowel 7-10 mm

Cleaning of tool

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

Usage time

app. 4 hours

Coagulation

Time of drying KEMATERM 215 is approx. 2 days.

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.
- 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 the unhardened/unset material have 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.

PROOFS

Norms/Standards

In accordance with Technical approval No. 060-031276

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.