

## TECHNICAL DATA SHEET

# KAMENOL

Mortar for stone laying



### PRODUCT DESCRIPTION

Middle-bed cement-based polymer-enriched mortar for laying of coverings with strongly profiled backing or uneven thickness.

#### Field of use

For laying of stone, stone tiles, clinker tiles, terracotta tiles and mosaic tiles, layer thickness 5 - 15 mm. For outdoor and indoor use.

#### Product properties

- High strengths
- Water and moisture-resistant
- For outdoor and indoor application
- Frost-resistant
- 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 date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.

#### Technical data

Type of product	Cementitious polymer modified adhesive	
Weight of fresh mortar	1,8 kg/l (at 20°C)	EN 12190:2000
Bulk density of powder	1,37 kg/ (at 20°C)	
Grain size	D <sub>max</sub> : 2 mm	EN 12192-1:2002
Layer thickness	from 5 to 15 mm	
Flexural strength after 28 days	>= 25 MPa	EN 1015-11:1999
Compressive strength after 28 days	>= 5 MPa	EN 1015-11:1999
Tensile adhesion strength after 28 days	>= 0,5 MPa	EN 1012:1997
Thermal conductivity	0,83 W/mK	EN 1745:2002
Coefficient paropropustnosti	15/35	EN 1745:2002
pH	11-13,5 (at 20°C)	

### INSTRUCTIONS FOR USE

#### Consumption

approx. 14 kg/m<sup>2</sup> layer thickness 10 mm

#### Base

The substrate has to be equally absorptive, homogenous, solid, supporting, stabile, not frozen (over +5°C), clean and free of dust, oil, grease remains, wax, falling of colour, or dirt. Coatings have to be air dry and the reinforced cement floor base has to be at least 28 days old.

#### Base preparation

Before applying the adhesive, anhydride cement floor base (mechanically ground), light concrete, gas concrete and gypsum coatings have to be impregnated with the polymer dispersion KEMAGRUND S (KEMACRYL) diluted with water in the ratio 1:1, for impregnation of compact surfaces is KEMAGRUND A, diluted with water in the ratio at least 1:1,

recommended.  
The surface has to be moistured before laying the tiles, the standing water suppose to be remove.

Mix ratio	4,5-5,5 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 to 10 minutes to intumesce and then stir it again thoroughly just before using it. If necessary, add some water. Water must not be added to the adhesive that is already in the binding phase.
Mix tool	Mix adhesive with electrical mixer with a suitable equipment for mixing in a clean container. Free fall mixers should not be used.
Installation	Apply a adhesive mortar on a cleaned surface using a trowel, with suitable notches regarding the substrate and lining. At least 65 % contact area between surface and lining must be covered with mortar. Our recommendation is, first to apply mortar with even part of trowel, then with notched part of trowel to spread out. By laying the lining on terraces, swimming pools and similar, we recommended combined procedure, where the mortar is applied on both surfaces (substrate and lining), because the space under linings has to be fully filled. This is to avoid the possibility of collecting rainwater and condensation under the lining, and thereby also the risk of fall due to freezing.
Tool	For applying the mortar KAMENOL choose a notched finishing trowel with teeth depth of 10 to 15 mm.
Cleaning of tool	Clean tools immediately after the use before mortar hardens. Hardened material on tools can only be removed mechanically.
Usage time	app. 4 hours
Coagulation	

## 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	<ul style="list-style-type: none"><li>• 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.</li><li>• Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C.</li><li>• Use only recommended amount of water. Use only mixture from undamaged packaging. Do not overdo the layer thickness.</li></ul>
	<b>Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.</b>
	<b>Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.</b>
	<b>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.</b>

## PROOFS

Norms/Standards	In accordance with European standards EN 998-2:2004
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## SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. 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.