



# KEMACRYL

## Polymer dispersion

- ▶ Improving of adherence of fresh concretes and mortars onto existing substrates
- ▶ Improves flexural, compressive, and shearing strength
- ▶ Improves workability of concrete and cement mortars
- ▶ Lowers the w/c factor
- ▶ Improves resistance to mineral oils, diluted leaches, and other aggressive agents



**PRODUCT DESCRIPTION** Polymer dispersion - a milk-white liquid.

**FIELD OF USE** For "old-to-new bond", for impregnation of very absorptive surfaces and for improvement of cement-bonded substrates.

- PRODUCT PROPERTIES**
- Improving of adherence of fresh concretes and mortars onto existing substrates
  - Improves flexural, compressive, and shearing strength
  - Improves workability of concrete and cement mortars
  - Lowers the w/c factor
  - Improves resistance to mineral oils, diluted leaches, and other aggressive agents

**PRODUCT DATA**

**BASIC INFORMATION**

**Appearance** White-milky liquid

**Packing** 1 kg in plastic cain / 8 kg (8x1kg) carton box / 576 kg (72x8 kg) on palette  
 5 kg in plastic cain / 480 kg (96x5 kg) on palette  
 10 kg in plastic cain / 600 kg (60x10 kg) on palette  
 50 kg in plastic cain / 800 kg (16x50kg) on palette BY ORDER

**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** Polymer dispersion

**Density** 1,020 - 1,025 kg/l

**pH** 8-10

**Appearance** White-milky liquid



## INSTRUCTIONS FOR USE

Table consumption-use KEMACRYL dispersion:

Use	Mix ratio kemacryl:water	Ratio cement:sand	Grain size of sand regarding thickness of layer	Consumption of Kemacryl kg/m <sup>2</sup> for layer 1-10 mm
Connective layer	1:1	1:1	0-1 mm	0,23-3,0
Old-to-new bond	1:1	1:2	0-4 mm	0,15-1,5
Levelling of surface with filling the holes				
Layer to 10 mm	1:1	1:1 do 1:3	0-4 mm	1,0-2,3
Layer up 10 mm	1:2	1:3	0-6 mm	0,4-1,0
Floor coat:				
-layer concrete for high resistant floor coatings	1:1 do 1:2	1:2 do 1:3	0-8 mm	0,7-1,0
-normally floor coatings	1:2 do 1:3	1:2 do 1:3	0-8 mm	0,4-1,3

**CONSUMPTION** 0.1 to 0.15 l/m<sup>2</sup> for impregnation of mineral surfaces (depending on the absorbency of the substrate)

0,3 to 0,5 l/m<sup>2</sup> for the connective layer,

0,7 to 1,0 l/m<sup>2</sup> for making of cement coating,

**BASE** Surface must be clean. There must be no loose particles, paint, grease, etc.

**BASE PREPARATION** Porous surfaces should be moistened prior to the application of KEMACRYL. Standing water should be removed from the floor. Active water leaks should be stopped. Very porous surfaces should be pre-coated with connective cement-milk coating.

**MIX RATIO** KEMACRYL is high concentrate polymer dispersion, which can be diluted with water in ratio until 1:2



**MIX TIME** For "old-to-new bond" cement and fine sand have to be mixed together in ratio 1:1, mixture made of water and KEMACRYL in ratio 1:1 should be added and mixed to achieve a lump-free consistency mortar suitable for brush application.

For improvement of floor screeds, mixing liquid is prepared from KEMACRYL and water in ratio 1:1 (for layer thickness to 10 mm) of 1:2 (for layer thickness above 10 mm).

For preparation of impregnation coating, KEMACRYL has to be diluted with water in ratio 1:1 to 1:2. Before further layers wait until impregnation coat has fully dried.

**INSTALLATION** - always prepare such quantity of fresh cement mortar, which can be applied in normal conditions

- grain size of aggregate is chosen regarding of thickness of applied layer
- layer to 2 mm 0-0,5 mm
- layer from 2 to 5 mm 0-1,0 mm
- layer from 5 to 15 mm 0-3,0 mm
- layer up to 15 mm 0-7,0 mm
- first mix dry component, then added the watered KEMACRYL and mix for app. 2 minutes
- bigger thicknesses are applied step by step, always fresh to fresh
- application temperature must be higher than +5°C

**CLEANING OF TOOL** Clean the tools immediately after use. Dry compound can be removed only mechanically.

## 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%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
  - 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.

**Recommendation:** Remains of the unhardened/unset material must be disposed in accordance to the local 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 a country specific technical sheet should be obtained.



## SAFETY DATA

KEMACRYL is not a hazardous substance in accordance to the Chemicals Act. In the case of contact with eyes, wash with copious water. If irritation does not stop, consult a physician. 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 latter 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.