



KEMABOND FLEX 131 W

White flexible adhesive

- ▶ Extended open time
- ▶ Reduced slip
- ▶ Frost-resistance
- ▶ For adhesion of new tiles onto old ones
- ▶ For laying ceramic tiles on underfloor heating



PRODUCT DESCRIPTION **White flexible cement-based polymer-enriched adhesive for floor and wall coverings, layer thickness 3 - 5mm.**

FIELD OF USE For outdoor and indoor installation of new tiles over old ones, laying of floor and wall ceramic coverings with low water absorbance (stoneware or gres porcelain tiles), marble, natural and artificial stone, ceramics in swimming pools, clinker tiles, for adhesion on underfloor heating and gypsum-cardboard panels as well as all common construction substrates.

- PRODUCT PROPERTIES**
- Extended open time
 - Reduced slip
 - Frost-resistance
 - For adhesion of new tiles onto old ones
 - For laying ceramic tiles on underfloor heating

PRODUCT DATA

BASIC INFORMATION

Appearance White powder

Packing 25 kg in bag (plastificated) / 1200 kg (48 x 25 kg) on pallet
5 kg in plastic bags / 30 kg (6x5 kg) in cardboard box / 720 kg (24x30 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 1,66 kg/l (at 20°C) EN 12190:2000

Bulk density of powder 1,35 kg/l (at 20°C)

Grain size D_{max}: 0,4 mm

Layer thickness approx. 3 -5 mm

Initial tensile adhesion strenght >= 1 MPa EN 1348:2007

Tensile adhesion strenght after water immersion >= 1 MPa EN 1348:2007

Tensile adhesion strenght after heat ageing >= 1 MPa EN 1348:2007

Tensile adhesion strenght after freeze-thaw cycles >= 1MPa EN 1348:2007

Slip < = 0,5 mm EN 1308:2007

Open time after 20 minutes >= 0,5 MPa EN 1346:2007

Open time after 30 minutes >= 0,5 MPa EN 1346:2007

pH (at 20°C) 11,5 - 13,5

INSTRUCTIONS FOR USE

CONSUMPTION 1,4 kg/m² for each mm of thickness

BASE The substrate has to be equally absorptive, dry, 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	<p>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 KEMACRYL (KEMAGRUND S) 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.</p> <p>Surface has to be sufficiently flat to enable setting of ceramic in cca. 3-5 mm thick layer of adhesive. Bigger unevenness of the floor (0.5-2 cm) is levelled by application of levelling mass LINEA 820 M to the connective coating KEMACRYL, diluted with water in the 1:1 ratio. When laying new ceramic tiles to the existing ones, the existing tiles have to be impeccably attached to the surface (must not sound hollow when knocked on). Before laying, they have to be washed with hot water and detergent to remove grease.</p> <p>Before setting of lining, floor bases with underfloor heating have to be heated and cooled in accordance with heating rules, cast asphalt surface has to be sandblasted. Surface can change its shape only in a limited amount after lining has been applied. On substrate constructions, which are contracting and extending, lining has to be laid as late as possible. A guideline is that lining can be applied cca. 3 months after the construction on a concrete surface and wall with connected bricks. In substrate constructions, where expected effects are finalised, the aforementioned time limit can be shorter.</p>
MIX RATIO	Approx.: 7,50 l of water per 25 kg of dry mixture
MIX TIME	Mix dry mixture with clean water into a homogenous mass of medium plastic consistency without clods. Leave it to rest for 5 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 thin adhesive layer on a cleaned surface using a trowel. Apply the next layer to a fresh contact layer using a notched finishing trowel. Ceramic tiles should be pressed into a fresh glue before a film forms on the adhesive. Adhesives in joints should be removed before it dries. By removing the adhesive from the joints the grouting compound can be applied and possible stains on the joints are prevented. If setting tiles on more demanding surfaces (outdoor, pools) and in other areas that require perfect adherence of ceramic tiles, the use of combined procedure is recommended. At the combined procedure the thin-layer adhesive is applied on both surfaces; on the surface to be lined as well as on the back side of the ceramics.
TOOL	Choose a notched finishing trowel with teeth depth of 4 to 6 mm, which assures 2 to 3 mm thick adhesive layer.
CLEANING OF TOOL	Clean tools immediately after use before adhesive hardens. Hardened material on tools can only be removed mechanically.
USAGE TIME	4-5 hours
OPEN TIME	app. 30 minut

COAGULATION Product appropriate for (+20°C):

- Grouting of wall and floor surfaces after 24 hours
- Grouting of tile on tile after 36 hours
- Ready for foot traffic on concrete surfaces after 24 hours
- Foot traffic on tile on tile after 36 hours
- Full load after 14 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.
 - Use only recommended amount of water. Use only mixture from undamaged packaging. Do not overdo the layer thickness.
 - Gypsum board panels should be at least 10 mm thickness with maximum moistness of 5%.
 - To achieve later water-resistance under the tiles a layer of Hidrostop Elastik is recommended.
 - It is not necessary to wet the lining before application. When setting natural stone, there is a danger of stone being coloured, so prior test setting is recommended.
 - Due to different working conditions presence of a film on the adhesive should be checked with a finger if membrane is formed on the surface of the applied adhesive.
 - Application of adhesive in direct sun and draught is not allowed.

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.

PROOFS

NORMS/ STANDARDS In accordance with European standards EN 12004:2007

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.