



KEMABOND 121 W

White ceramic tile adhesive

- ▶ White colour
- ▶ Reduced slip
- ▶ Good workability
- ▶ Frost-resistance
- ▶ High adhesion strengths
- ▶ Long open time

C1T



PRODUCT DESCRIPTION White cement-based polymer-enriched adhesive for ceramic tiles, layer thickness 3 mm.

FIELD OF USE Suitable for laying of light coloured tiles, clinker tiles, terracotta tiles, mosaic tiles and for special tile laying methods, where white adhesive is required. For outdoor and indoor use on floor and wall surfaces.

- PRODUCT** • White colour
- PROPERTIES** • Reduced slip
- Good workability
- Frost-resistance
- High adhesion strengths
- Long open time

PRODUCT DATA

BASIC INFORMATION

Appearance White 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 1,64 kg/l (at +20°C)

EN 12190:2000

Bulk density of powder 1,29 kg/l (at +20°C)

Grain size D_{max} : 0,355 mm

EN 12192-1:2002

Layer thickness approx. 3 mm

Initial tensile adhesion strenght $\geq 0,5 \text{ N/mm}^2$

EN 1348:2007

Tensile adhesion strenght after water immersion $\geq 0,5 \text{ N/mm}^2$

EN 1348:2007

Tensile adhesion strenght after heat ageing $\geq 0,5 \text{ N/mm}^2$

EN 1348:2007

Tensile adhesion strenght after freeze-thaw cycles $\geq 0,5 \text{ N/mm}^2$

EN 1348:2007

Slip $\leq 0,5 \text{ mm}$

EN 1308:2007

Open time after 20 min $\geq 0,5 \text{ N/mm}^2$

EN 1346:2007

pH (at +20°C) 11-13,5

INSTRUCTIONS FOR USE

CONSUMPTION 2-4 kg/m² depending on the substrate, floor covering size and application method

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 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.

Surface has to be sufficiently flat to enable setting of ceramic in cca. 3 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.

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. 6 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.

MIX RATIO Approx.: 7,5 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 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 in a clean container using suitable electrical mixer. Free fall mixer 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 the use before adhesive hardens. Hardened material on tools can only be removed mechanically.

USAGE TIME approx. 4 hours

OPEN TIME approx. 20 minutes

COAGULATION Product appropriate for (+20°C):
 Grouting of wall surfaces after min.12 hours
 Grouting of floor surfaces after min. 24 hours
 Ready for foot traffic after min. 24 hours
 Full load after min. 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%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
 - 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.
 - 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.
 - 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 direkt 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. 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

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