

KEMA d.o.o., Puconci 393, 9201 Puconci, Slovenija T: +386 (0)2 545 95 00, F: +386 (0)2 545 95 10 Technical consulting: +386 (0)2 545 95 28, +386 (0)2 545 95 73 I: www.kema-on.net | E: info@kema.si

Label: TL_KB_108 June, 2016 Issue: Revision: September 2016

TECHNICAL DATA SHEET

KEMABOND 108

Universal ceramic tile adhesive, cat. C1T



PRODUCT DESCRIPTION

The standard cement-based adhesive is frost resistant cement adhesive for internal and external us in layer thickness 3 mm. It is designed for bonding medium absorbent and absorbent ceramic tiles. It is designed for bonding only in light-weight areas with movement of persons. Its advantage is a good workability and reduced slip.

Field of use

For indoor and outdoor use on floor and wall concrete surfaces and various plasters.

Product properties

- · Easy workability
- Reduced slipHigh adhesion strengths
- Effectiveness
- · Long open time

PRODUCT DATA

Basic information

Appearance	Gray 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	Composition of cement binder, quartz sand, additives and ingredients	
Classification according to EN 12004 EN 12004		EN 12004
Grain size	Dmax: 0,7 mm	EN 12192-1:2002
Mixing water consumption for 1 kg	0,28-0,31 l for 1 kg	
Mixing water consumption for 1 bag	7-7,75 l for 25 kg	
Material consumptionPa		
- Tooth height 3-4 mm	cca. 2 kg/m2	EN 1348:2007
- Tooth height 6-8 mm	cca. 3 kg/m2	EN 1348:2007
- Tooth height 8-12 mm	cca. 4 kg/m2	EN 1348:2007
Yield	1300 kg/m3	EN 1348:2007
Usage time	min 3,5 hour	EN 1348:2007
Open time	min. 20 minutes	EN 1308:2007



KEMA d.o.o.. Puconci 393, 9201 Puconci, Slovenija T: +386 (0)2 545 95 00, F: +386 (0)2 545 95 10 Technical consulting: +386 (0)2 545 95 28, +386 (0)2 545 95 73 I: www.kema-on.net | E: info@kema.si

Revision: September 2016

TL KB 108

June, 2016

Label:

Issue:

Tensile adhesion strength after 20 min	>= 0,5 MPa	EN 1346:2007
Initial tensile adhesion	>= 0,5 MPa	EN 1346:2007
Tensile adhesion strenght after	>= 0,5 MPa	EN 1348:2007
- Water immersion	>= 0,5 MPa	EN 1348:2007
- The effect of heat	>= 0,5 MPa	EN 1348:2007
- Freeze-thaw cycles	>= 0,5 MPa	EN 1348:2007

INSTRUCTIONS FOR USE

Consumption

2-4 kg/m² depend of the conditions of the substrate, size of tiles and method of application.

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 (0,5-3 cm) is levelled by application of levelling mass LINEA 830 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

7-7,5 I 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 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 3 to 5 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. 3,5 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 techical 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
- 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 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.



KEMA d.o.o., Puconci 393, 9201 Puconci, Slovenija T: +386 (0)2 545 95 00, F: +386 (0)2 545 95 10 Technical consulting: +386 (0)2 545 95 28, +386 (0)2 545 95 73 I: www.kema-on.net | E: info@kema.si Label: TL_KB_108 Issue: June, 2016 Revision: September 2016

ID: **696**

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

Xi - 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, 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 one event will KEMB be responsible for damages of any nature whatsoever 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. Nothing contained herein is to be construed as a recommendation to the use any pro