

DEKOGROUT EPOXY

High-workability, two-component epoxy grout with excellent chemical resistance for ceramic tiles, porcelain stoneware, mosaics and natural stones, waterproof, stain-resistant, with extraordinary uniformity and colour durability, Classified as reactive adhesive EN 12004 R2T

- Antibacterial and mould resistant
- Perfect for rectified tiles
- Water repellent
- Resistant to freeze/thaw cycles
- Good application and wash-off properties
- Smooth surface and wide colour range (20 colours plus a translucent version)
- Resistant to chemical and mechanical loads
- For interior, exterior and for swimming pool
- Fulfils the requirements of EN 13888, RG and EN12004 R2T
- For joints from 2 -10 mm wide
- Suitable for floor and wall heating
- Colours matched to the LATASIL silicone system
- CE





TECHNICAL FEATURES:

DEKOGROUT EPOXY is a special two part product with an epoxy resin base, selected quartzes and special additives suitable for laying and grouting all types of ceramic floorings and coverings onto a wide variety of bases, waterproof and resistant to chemical and mechanical loads. Designed to harden rapidly and without shrinking, easy to use and clean with water, DEKOGROUT EPOXY is waterproof, non-absorbent, acid, stain, bacteria and mould resistant. It guarantees an aspect and a resistance to aging and a cleanliness of the joint that can not be obtained with traditional grouts. DEKOGROUT EPOXY is available in 20 colours plus a translucent version.

AREAS OF APPLICATION:

Fixing all types of glass mosaic and tiles and making all types of joint from 2 to 10 mm wide on tiled floors and covers (except for absorbent surfaces) in: bathrooms, showers, saunas, spas, thermal centres, swimming pools (even with see water), laboratory benches, kitchen benches, hospitals, everywhere you want to accomplish a coating with some features of higher duration, cleaning facility and beauty.

TECHNICAL ASSISTANCE

INSURANCE GUARANTEE

TECHNICAL MEETINGS

PROFESSIONAL USE

CONTRACT ITEM SPECIFICATIONS: Floor and wall coverings must be applied and grouted with a epoxy, antibacterial, flexible, mould resistant, water-repellent adhesive/grout certified and tested in accordance with EN 13888 class RG and EN 12004 class R2T with deformation higher than 10 mm like DEKOGROUT EPOXY by Benfer.

Tools and products for an excellent workability of DEKOGROUT EPOXY:

- DEKOGROUT EPOXY non-absorbent, two components, adhesive-grout, acid, bacteria, stain and mould resistant.
- Hard rubber grout float for an accurate filling of sealant into the joints. We recommend exerting a reasonable pressure, so that the product will penetrate deeply in empty spaces. The hard spatula allows the filling at the tile level, avoiding the unpleasant effect of voiding the joints.
- Mildly abrasive felt, used to emulsify the grout before cleaning with a sponge. Consider a consumption approximately of 1 felt every 4 m^2 for the application of mosaic, and 1 felt every 15 m^2 for gres in big format.
- Sponge in cellulose, particularly soft for the accurate cleaning of the fresh product. Consider a consumption approximately of 1 sponge every 4 m^2 for the application of mosaic, and 1 sponge every 15 m^2 for gres in big format.

METHOD OF USE:

Before starting:

Epoxy joint should be cleaned in short time before the application to get an excellent result. For this reason we recommend to consider at least two persons, who, at the same time, can grout the joints and clean the grout excess with felt and sponge.

Environmental conditions:

To execute a good work with DEKOGROUT EPOXY temperature is very important; it has a great influence on the times of workability of the product and on the times of crossing on the floor;
For this reason, during the application of the system, the temperature must be between 12° and 30°C. Protect the surfaces from strong sunlight, airflows, strong wind and high relative humidity. In any case, we recommend to stock DEKOGROUT EPOXY at a temperature between 15° and 25°C during 24 hours before use. This expedient improves the workability, reducing fatigue during application.

PREPARATION OF THE MIXTURE:

The supports must be fixed and incapable of being deformed, not free to move except for fluctuations and elastic vibrations typical of the structures. Drywalls and thin prefabricated boards are not suitable as supports. Grouted joints must be cleaned accurately before de application and the residual cement on the whole thickness of the tile and the surface must be free from any trace of dust, oil or anti-adhesive substances.
Furthermore, it is essential that grouts and mortars used for application are dry (see times declared by the producer in the technical data sheets).

For adhesives of the brand Benfer, respect the following waiting times (at + 23°C, 50% relative humidity):
NORMAL SETTING ADHESIVE : 12 hour
RAPID SETTING ADHESIVE: 3 hours.

Pay particular attention to the grouting of ceramic material, especially polished, because the superficial glazing can be removed and resulting more absorbent to grouts in general. We recommend to protect the surfaces with specific products before the grouting. For any doubt, make a test on a small surface before proceeding, and consult the supplier before starting to work, anyway.

PREPARATION OF THE MIXTURE:

DEKOGROUT EPOXY is available in 3 kg bucket that contains 2 pastes, that are pre-dosed in the right ratio, to be mixed entirely in the original packing with clean and dry tools, until you obtain a homogeneous paste, using, in case, a spatula to scrape from the bucket the material that was not perfectly mixed. We recommend to use a low-rev electric mixer and a highly resistant tool (better if made of steel) with a helix with a diameter lower than 9 cm. It is absolutely forbidden to add water to the product, from which it would be irredemably damaged. When opting for the clear version with glitter, after having thoroughly mixed part A with part B, slowly pour all the contents of the glitter pack continuing to mix and using a spatula to scrape the product from the sides of the container until the perfect result is obtained. During the mixing, the setting and the sponge-cleaning operations, always use protective gloves and glasses, because paste B is irritant for the skin.

APPLICATION OF DEKOGROUT EPOXY AS A GROUT:

Spread DEKOGROUT EPOXY with a hard rubber grout float by exerting a reasonable pressure, so that the product will penetrate deeply, then remove accurately the excess grouting parts with rubber grout float in diagonal way. In the meantime the second worker will start immediately the cleaning process. Prepare two containers with lukewarm clean water, apt for this purpose. Squeeze the medium-hard felt, imbued of water, on the tiles and emulsify the grout with circular movements. It is necessary to rinse frequently the felt to remove the excess grouting parts and to add water on the treated surfaces. Finally remove residual material with the soft sponge in cellulose, to be rinsed frequently in fresh water. We recommend to use the sponge moving it on joints at 45°C to avoid the removal of grout as much as possible.

Cleaning after application:

To execute a good work it is very important to clean within few minutes after grouting because, as explained before, because if you delay too long, the cleaning operation would become too difficult. Subsequently, do not walk on the fresh floor for 24 hours to avoid to drag under the shoes the fresh product (still not dry) all over the surface. An accurate cleaning operation after application is recommended anyway, in particular the day after, even following the really first cleaning.

APPLICATION OF DEKOGROUT EPOXY AS ADHESIVE:

Spread DEKOGROUT EPOXY with a notched metallic spatula, suitable for the tiles to lay. In interiors, apply the tiles by exerting a reasonable pressure, so that the contact with the adhesive will be, at least 80% of the wall surface; at least 95-100% for floor tiles. In exterior, in damp areas or inside tanks, the contact with the adhesive must be 100%. At 23°C the open time is about 50 minutes and the duration of the mixture in the bucket is about 45 minutes.
In adverse conditions (with extremely high room temperature, ex. : 30°C), the cited periods of time may be considerably reduced; in this case, we recommend the use of the product within 30 minutes, applying gradually and avoiding the application when the product results too dense or thick inside the bucket. Floors created with DEKOGROUT EPOXY can be walked by with caution after about 24 hours for grouting, completely walkable after 4 days in presence of temperature of 23°C. In case of temperature lower than 15°C we discourage the application.

FULL SERVICE:

The full service of the finished floor depends on the weather conditions. Consider that at temperature of 23°C (ideal value of an easy application) the time of walkability is 24 hours, while at 15°C is 36 hours. Before the full service verify if the product inside the joints has hardened completely.

ADVICE:

- Always provide a grout of proper dimensions. The adequate minimum width for floors and tiles in interiors is 2 mm, for external floors and walls is 5 mm.
- Although it is more deformable compared to a cementitious grout, DEKOGROUT EPOXY is not an elastic product, so, in floors in interior areas, you need to consider expansion joints every 25 m^2 and 9 m^2 for floors in dark colors, up to maximum 12 m^2 for light colors, always repeating the fraction joints of the screed on the floor, as well as the structural joints.
- The expansion joints must be filled with silicone LATASIL or a sealant LATASIL AC, removing all the material that may affect the adhesion strength before the application.
- During the first 24 hours, always protect the finished and grouted covering from weather agents, such as strong sunlight, wind, rain etc...
- Protect all the areas which are not to be treated from the effects of DEKOGROUT EPOXY.
- Due to its granulometry, DEKOGROUT EPOXY is suitable for sealing joints from 1 mm wide.
- Do not use DEKOGROUT EPOXY in presence of water inside the joints, with residual cement, oil or dust on the tiles.
- Do not use dark colors on Klinker which is not glazed.
- Contact the supplier before starting to work with the grouting absorbent materials with DEKOGROUT EPOXY.
- Do not wash DEKOGROUT EPOXY with acid substances or strong oxidants during application. This may inhibit the hardening process of the material.
- Avoid standing cleaning water on the freshly made grouts.
- The prolonged contact with acid or oxidant products may modify the color of grouting.

Chemical resistance of ceramic walls grouted with DEKOGROUT EPOXY:

Substance	Exposure 7 days
Hydrochloric acid	+
Sodium hypochlorite 0.55%	+
Lactic acid 2.5%	+
Sulphuric acid 50%	+
Tartaric acid 10%	+
Ammonia 30%	+
Diesel	+
Engine oil	+
Ragia Minerale	+
Propylene glycol	+

Key:
+ = EXCELLENT RESISTANCE

CONSUMPTION:

DEKOGROUT EPOXY

Indicative consumption in kg/m² including scrap (10%)

Tile size (cm)	Joint width (mm)	Joint depth (mm)			
		1	2	3	5
2x2	4	0,70	1,40	2,10	3,50
10x10	9	0,32	0,64	0,96	1,60
7,5x15	7	0,25	0,50	0,75	1,25
15x15	9	0,21	0,42	0,63	1,05
12x24	12	0,26	0,52	0,78	1,30
20x20	9	0,16	0,32	0,48	0,80
20x20	14	0,25	0,50	0,75	1,25
30x30	10	0,12	0,24	0,36	0,60
30x60	10	0,09	0,18	0,27	0,45
45x45	10	0,08	0,16	0,24	0,40
45x90	10	0,06	0,12	0,18	0,30
60x60	10	0,06	0,12	0,18	0,30
60x120	10	0,04	0,08	0,12	0,20
120x120	10	0,03	0,06	0,09	0,15
15x80	10	0,14	0,28	0,42	0,70
20x150	10	0,10	0,20	0,30	0,50
20x170	10	0,10	0,20	0,30	0,50
60x60	20	0,12	0,24	0,36	0,60
100x100	6	0,02	0,04	0,06	0,10
150x300	6	0,01	0,02	0,03	0,05

PLEASE NOTE: the consumption given in this chart is based on our best experience and is indicative only. It must in any event be verified by the final user.

DEKOGROUT EPOXY Colours

Name/Colour	Art. n°	Packaging/Pallet
44 BRIGHT WHITE	24-61**44**-E-0003-I	3 kg bucket 96 buckets/pallets
85 ALMOND	24-61**85**-E-0003-I	3 kg bucket 96 buckets/pallets
03 SILK	24-61**03**-E-0003-I	3 kg bucket 96 buckets/pallets
23 ANTIQUE WHITE	24-61**23**-E-0003-I	3 kg bucket 96 buckets/pallets
30 SAND BEIGE	24-61**30**-E-0003-I	3 kg bucket 96 buckets/pallets
52 TOASTED ALMOND	24-61**52**-E-0003-I	3 kg bucket 96 buckets/pallets
81 BUTTER CREAM	24-61**81**-E-0003-I	3 kg bucket 96 buckets/pallets
61 PARCHMENT	24-61**61**-E-0003-I	3 kg bucket 96 buckets/pallets
58 TERRA COTTA	24-61**58**-E-0003-I	3 kg bucket 96 buckets/pallets
66 CHESTNUT BROWN	24-61**66**-E-0003-I	3 kg bucket 96 buckets/pallets
59 ESPRESSO	24-61**59**-E-0003-I	3 kg bucket 96 buckets/pallets

Name/Colour	Art. n°	Packaging/Pallet
33 BOSTON FERN	24-61**33**-E-0003-I	3 kg bucket 96 buckets/pallets
88 SILVER SHADOW	24-61**88**-E-0003-I	3 kg bucket 96 buckets/pallets
89 SMOKE GREY	24-61**89**-E-0003-I	3 kg bucket 96 buckets/pallets
78 STERLING SILVER	24-61**78**-E-0003-I	3 kg bucket 96 buckets/pallets
24 NATURAL GREY	24-61**24**-E-0003-I	3 kg bucket 96 buckets/pallets
60 DUSTY GREY	24-61**60**-E-0003-I	3 kg bucket 96 buckets/pallets
42 PLATINUM	24-61**42**-E-0003-I	3 kg bucket 96 buckets/pallets
45 RAVEN	24-61**45**-E-0003-I	3 kg bucket 96 buckets/pallets
22 MIDNIGHT BLACK	24-61**22**-E-0003-I	3 kg bucket 96 buckets/pallets
00 TRANSLUCENT	24-61**00**-E-0003-I	3 kg bucket 96 buckets/pallets

PLEASE NOTE: The colours shown in this chart are reproduced as real as possible, but they are indicative only.They must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.

CLEANING: The cleaning of coverings has to be done with a damp felt or a sponge before the sealer starts gripping.
CONSUMPTION: See table.
PACKAGING : DEKOGROUT EPOXY: A: 2.82 + B: 0.18; A+B: 3 kg bucket.
STORAGE: In a dry place, in the original closed package; open bags must be closed again and used as soon as possible.
SHELF LIFE: 24 months.

PRODUCT TECHNICAL DATA	
Classification:	EN 13888 RG and EN 12004 R2T
Consistency:	Part A: Doughy. Part B: Dense liquid
Colours:	See table
Specific weight:	Part A: 1,80 kg/dm^3. Part B: 0,98 kg/dm^3
Inflammable:	No
Mixture ratio:	Part A : Part B = 94:6
Mixing time:	2-3 minutes (mixer . 300 - 500 r/min)
Consistency of paste:	Doughy
Mass volume of paste:	1.60 kg/dm^3
Pot Life:	45 minutes at + 23°C
Application temperature:	From + 12°C to + 30°C
Largeness of application :	From 2 to 10 mm
Foot traffic after:	After 24 hours
Full service:	After 24 hours
Final hardening:	7 days
Humidity resistance:	Excellent
Aging process resistance:	Excellent
Resistante to oil:	Good
Resiatance to chemical agents:	Excellent
Resiatance to alkali:	Excellent

Final performance	
Shear resistance at start:	> 2,0 N/mm^2
Shear resistance after water immersion:	> 2,0 N/mm^2
Shear strength after thermal shock:	> 2,0 N/mm^2
Deformability according to EN 12004:	> 5 mm
Resistance to temperature:	From - 20°C to + 100°C
	* at 23°C and 50% relative humidity

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