

ENTEGRE

"Building Life"

FUGAFIX EPOKSi®

Epoxy-Based, High-Strength,
Chemical-Resistant, Antibacterial
Ceramic Tile Adhesive and Grout



TILE ADHESIVES AND
GROUTING MORTARS

Areas of Use

Used indoors and outdoors for bonding and grouting materials such as ceramic tiles, marble, granite, acid-resistant tiles, glass mosaic and glass blocks.

Application Areas

- In all types of food production facilities and the meat/fish industry,
- In chemical industry applications such as pharmaceuticals, paint and leather,
- In hospitals, healthcare units and all types of hygienic environments,
- In swimming pools, spas, saunas and similar areas,
- In wastewater and treatment facilities,
- In areas exposed to heavy pedestrian traffic.

Properties

- Antibacterial.
- Easy to apply.
- Does not retain dirt and is easy to clean. Can be cleaned with water.
- Has high mechanical strength.

- Resistant to chemicals, acids, alkalis, oils, food-processing wastewater, and domestic and chemical wastewater.
- Suitable for joint widths from 2 mm to 10 mm.
- Resistant to freeze-thaw cycles.
- Suitable for contact with drinking water.

Application

Surface Preparation

Before application, the surface must have reached its full strength; dust, shavings, and construction or cement residues must be scraped off and cleaned with a brush, and all adhesion-reducing substances must be removed.

Mortar Preparation and Application

Packaged in suitable quantities as two components. If only part of the product in the package is to be used, Resin A and Hardener B must be mixed at a ratio of 100/4 by weight. The two components must be mixed for at least 3 minutes with a drill fitted with a mixing paddle at 400-600 rpm until a homogeneous mixture is obtained.

Mixing Ratios

Fugafix Epoksi Component A, 5 kg epoxy resin

Fugafix Epoksi Component B, 0.2 kg epoxy hardener

Document No: TDS.ENG.04.16

Revision No: 1

Validity Date: 25.08.2026

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Application as a Ceramic Tile Adhesive

FUGAFIX EPOKSi® is applied in the same manner as cement-based ceramic tile adhesives. After mixing, the material is spread with a suitable notched trowel and the tiles are bonded. On critical substrates and in areas subject to heavy loads, a thin skim coat of the material is applied to the bonding area with the flat side of the trowel; epoxy mortar is then placed on top, spread with a notched trowel, and the tiles are bonded. After the material has been spread with the notched trowel, the tiles must be bonded quickly and must not be bonded onto material that has begun to dry.

Application as a Grout

FUGAFIX EPOKSi® is filled into the joints using a plastic or hard-rubber float or a cartridge gun. Excess material is scraped from the joints. In deep joints, the initially applied material settles inside the joint. Ensure that the joint is completely filled. Depending on the ambient and surface temperature, wait approximately 15-25 minutes; then clean the surface with a suitable sponge and detergent water and give the joints their final shape. The soiled sponge must be replaced frequently during cleaning. Wiping can be performed more quickly with hot water.

Cleaning the Tiles

Epoxy-based grouts form a film on the tiles. This film must be cleaned thoroughly. If cleaning is delayed, it becomes very difficult. Approximately 5 hours after application, the final film on the tiles must be cleaned with a suitable sponge and hot detergent water; the

surface must then be wiped after adding 10% alcohol to the final cleaning water.

Consumption

For bonding ceramic tiles, consumption is approximately 1,7 kg/m² per 1 mm mortar thickness.

Consumption Table for Use as a Grout

	Joint Widths						
Tile Sizes	2 mm (g/m ²)	3 mm (g/m ²)	4 mm (g/m ²)	5 mm (g/m ²)	6 mm (g/m ²)	8 mm (g/m ²)	10 mm (g/m ²)
10x10	600	900	1200	1500	1800	2400	3000
10x20	500	700	950	1150	1400	1850	2300
15x15	400	600	800	950	1150	1550	1900
15x20	350	550	700	900	1100	1400	1800
20x20	350	500	650	800	1000	1300	1650
20x25	300	450	600	750	900	1200	1500
20x30	300	400	550	700	800	1100	1400
30x30	250	350	450	550	650	900	1100

Technical Values

Grout Properties	Value
Compressive Strength After Dry Storage, N/mm ² (TS EN 13888-2)	≥ 45
Flexural Strength After Dry Storage, N/mm ² (TS EN 13888-2)	≥ 30
Abrasion Resistance, mm ³ (TS EN 13888-2)	≤ 250
Shrinkage, mm/m (TS EN 13888-2)	≤ 1,5
Water Absorption After 240 Minutes, g (TS EN 13888-2)	≤ 0,1

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Ceramic Tile Adhesive Properties	Value
Initial Adhesion Strength, N/mm ² (TS EN 12004-2)	≥ 2
Adhesion Strength After Water Immersion, N/mm ² (TS EN 12004-2)	≥ 2
Adhesion Strength After Thermal Shock, N/mm ² (TS EN 12004-2)	≥ 2
Tensile Adhesion Strength After Open Time (at least 20 min), N/mm ² (TS EN 12004-2)	≥ 2
Slip, mm (TS EN 12004-2)	≥ 0,5

General Properties	Value
Temperature Resistance	-20 °C / +80 °C
Color	White/Grey
Pot Life	~ 45 minutes
Open Time	~ 20 minutes
Time Before Opening to Pedestrian Traffic	7 days
Substrate Temperature	-10 °C / +25 °C

Packaging and Storage

- Supplied as a 5,2 kg (A+B) set in metal containers.
- Must be stored unopened in its original packaging in a cool, dry and frost-free environment.
- The shelf life is 1 year from the date of production under suitable storage conditions.

Warnings

- FUGAFIX EPOKSi® must be mixed using a suitable mixing drill.
- Must never be mixed by hand or with a trowel.
- The working and curing times of epoxy-resin-based products depend on the ambient and substrate temperatures.

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- No foreign material (water, lime, cement, gypsum, etc.) must be added to the prepared mortar.
- Product approaching the end of its pot life (an A+B mixture whose temperature has begun to rise) must not be used.
- After curing, FUGAFIX EPOKSi® can only be removed from the surface by mechanical methods.
- Application at temperatures between +5 °C and +30 °C is recommended.
- In all applications where the surroundings or air are hot, the A+B mixture must be divided into small quantities to prevent the risk of premature setting.
- Before mixing Component A with Component B, the temperature of each component must be checked. Components heated by sunlight or stored in a very hot warehouse must first be cooled with water. Mixing may begin when the temperature of the components is 20-23 °C or lower.
- Do not inhale directly. Due to their irritating effects, cured materials must not come into contact with the eyes. In case of contact, rinse with plenty of water.
- Application areas must be ventilated.
- In dairy production facilities, contact the manufacturer for technical guidance before application as a grout.

- For further information, request the product safety data sheet.
- Please consult us regarding all other application conditions and for your technical questions.

Conformity Documents



TS EN 13888-1 / September 2022 / RG

Complies with TS EN 12004-1 / R2T class.

RG: Reaction resin grout

Ministry of Public Works Item No: 04.013/3