

EPOXY GROUT

KB BuildChem Epoxy Grout is a three-component, easy-to-use, epoxy-based tile grout designed for superior performance and durability. It is suitable for grouting all types of ceramic tiles, vitrified tiles, porcelain tiles, natural stones, and mosaics on both floors and walls.

It is especially recommended for hygiene-sensitive areas and locations requiring sterile conditions.

When the three components are mixed, KB BuildChem Epoxy Grout forms a smooth, creamy, and thixotropic paste that ensures easy application, effortless cleaning, and long-term maintainability. The cured grout delivers excellent mechanical strength along with superior chemical and stain resistance.

The result is a high-performance, durable, and easy-to-maintain epoxy grout system.

KB BuildChem Epoxy Grout complies with the following standards:

ISO 13007 – 3, 13007, ANSI A118.3

PRIMARY USE

- **KB BuildChem Epoxy Grout** is suitable for maintenance-free use across residential, commercial, hospitality, and industrial sectors. It can be used with ceramic tiles, porcelain and vitrified tiles, large format tiles and slabs, low-thickness slabs, natural stone, and artificial stone on both floors and walls.
- The product is ideal for residential homes, hotels, resorts, shopping malls, offices, and commercial complexes where durability and easy maintenance are required. Its superior resistance to bacterial and fungal growth makes it particularly suitable for hygiene-sensitive and sterile environments such as hospitals, operation theatres, clinics, commercial kitchens, and food processing areas.
- **KB BuildChem Epoxy Grout** is also recommended for demanding industrial applications including chemical industries, laboratories, production and storage workshops, paper mills, dyeing plants, tanneries, breweries, and other processing plants where high mechanical strength and chemical resistance are essential.
- Due to its excellent water and chemical resistance properties, it can be confidently used in wet and submerged areas such as swimming pools, spas, jacuzzies, bathrooms, public toilets, and showers.

MERITS

- **Suitable Joint Widths (2 – 10 mm)** : Designed for grout joints ranging from 2 mm up to 10 mm, ensuring versatility for different tile and stone applications.
- **Wall & Floor Application** : Can be applied on both vertical and horizontal surfaces, making it ideal for complete tiling solutions.
- **Highly Thixotropic & Non-Sag** : The special formulation prevents sagging on walls and allows use as both grout and adhesive.
- **High Abrasion Resistance** : Provides superior wear resistance for floors and high-traffic areas, ensuring long-lasting durability.
- **High Compressive Strength** : Delivers excellent mechanical strength for heavy-duty and industrial applications.
- **Low Water Absorption** : Creates watertight joints that prevent moisture penetration, suitable for wet areas and submerged applications.
- **UV Resistance** : Maintains colour and performance even under prolonged exposure to sunlight.
- **Stain & Chemical Resistance** : Resistant to common chemicals, cleaning agents, and stains, ensuring aesthetic longevity.
- **Hygienic & Bacteria-Resistant** : Prevents bacterial and fungal growth, making it suitable for hospitals, kitchens, and sterile environments.
- **Low VOC Content & Full Curing** : Environmentally friendly with low VOC emissions, ensuring complete chemical reaction and durability upon curing.

DIRECTION OF USE



Surface Preparation :

- Tiles or stones should be firmly set, and the adhesive or mortar must be completely dry. Remove all spacers before grouting. Grout joints must be clean, dry, and free of standing water, dust, dirt, or foreign matter.
- Avoid using acid cleaners on tiles/stones. Clean joints thoroughly with water or mild detergent.
- Any residual moisture during grouting may reduce the performance of the epoxy grout.



Mixing Instruction :

- Please ensure proper personal protective equipment's (PPE) before mixing.
 - Take 2 parts resin, 1 part hardener & 8 parts filler by in ratio of 2 : 1 : 8 by weight.
 - Mix the resin & hardener for a minute. Add 80% of filler and mix for 2 minutes. Then add balance 20% of filler and mix all the components for another 2 minutes to get a homogeneous paste and consistent color.
 - Prolonged mixing is to be avoided as it traps air and shortens pot life.
 - The mixed workable grout can be used upto 45 minutes at 27C.
 - Wash tools immediately with water before the epoxy hardens. It is very difficult to remove after it has hardened.
 - In case of mixing with a mechanical mixer a slow 100 rpm mechanical mixer is recommended.
 - No water to be added in the mix.

Available Packaging

1 kg Kit & 5 kg Kit



Application Method – Tile Grout :

- Ensure PPE is worn before application.
- Apply the mixed grout using a squeegee, rubber float, or suitable tool.
- Force grout into joints continuously, leaving the surface flush with tile edges, ensuring joints are fully filled and void-free.
- Remove excess grout within 30–60 minutes using a damp sponge or appropriate tool. Use minimal water during cleaning to preserve chemical resistance.
- For vertical surfaces, use a non-abrasive cloth or smooth pad to remove surface film without disturbing the grout.
- Touch-ups, if required, should be done within 30–45 minutes of application.
- Complete final cleaning within 10–20 minutes of initial cleaning.
- Cordon off the area to prevent accidental damage during curing.



Curing :

- Protect the area for 48 hours after application.
- For swimming pools, protect for 72 hours before filling with water.
- Normal cleaning can be done with water; avoid harsh chemicals.
- Acid cleaning should be avoided; household acid cleaning can be done 10–14 days after application.
- Proper maintenance of the installed area ensures optimal durability and performance.

Coverage

Consumption depends on **tile size** and **joint width**.

Tile Size (mm)	200 X 300	300 X 300	450 X 450	600 X 600
Tile Size (Inches)	8 X 12	12 X 12	18 X 18	24 X 24
Tile Thickness (MM)	6	7	8	9
Joint Width 2 mm (kg/sqm)	0.172	0.106	0.122	0.103
Joint Width 3 mm (kg/sqm)	0.258	0.240	0.183	0.154
Joint Width 5 mm (kg/sqm)	0.430	0.401	0.305	0.258
Joint Width 10 mm (kg/sqm)	0.860	0.802	0.611	0.516

Note : Consumption may vary slightly depending on joint depth, tile surface texture, and site conditions.

TECHNICAL DATA

General Properties

Testing Properties	Test Result
Water Cleanability	95 min
Initial Setting Time	175 min
Service Setting Time	6 days
Shrinkage at 7 Days	0.06%
Sag in Vertical Joints (10 mm tile gap)	No Change
Shear Bond Strength at 14 Days	8.5 N/mm ²
Compressive Strength at 7 Days	433 N/mm ²
Tensile Strength at 7 Days	7.8 N/mm ²
Thermal Shock Resistance	4.2
Pot Life at 25°C	> 80 min
Mix Density	1.58 g/cc

STORAGE

- Offers a long 12-month shelf life when kept in a cool, dry place in original sealed bags.

PACKAGING

Component	1 Kg Kit	5 Kg Kit
Hardener	70 gms Bottle	350 gms Bottle
Resin	180 gms Bottle	900 gms Bottle
Filler	750 gms * 1 Packet	750 gms * 5 Packet

SAFETY PRECAUTION

- Suitable for grout joints between **2 mm and 10 mm**.
- Avoid application in **excessive heat**. After full curing, KB BuildChem **Epoxy Grout** can withstand temperatures between **0°C – 80°C**.
- For **exterior installations**, slight colour variations may occur over time, especially in lighter shades, due to UV exposure or environmental factors.
- Ensure **compatibility of tiles/stones** with the mixed grout before application. Refer to the recommended methodology.
- Keep out of reach of **children and animals**.
- **Reseal containers** immediately after use to preserve material integrity.
- Do **not reuse containers** for storage of food or other consumable items.

Disclaimer : Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.



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