



# KEM EPOXY TILE GROUT

High performance epoxy resin based tile adhesive & grout

Ref. TL/EB-V1-0112

## Description

KEM EPOXY TILE GROUT is a solvent free epoxy resin blended with selected fine fillers. It is supplied as a three component system in pre-weighed quantities ready for on-site mixing and use. Two versions of KEM EPOXY TILE GROUT are available.

**Normal:** For working at normal temperatures.

**Extended Pot life:** For working in hot weather conditions above 35°C.

## Uses

- It is a high performance epoxy grout with exceptional chemical resistance for bedding and grouting tiles in heavy duty environments.
- It is used for a single operation bedding and grouting of tiles on horizontal & vertical surfaces.
- It is used wherever excellent mechanical properties, high chemical resistance combined with a high standard of finish is required such as in swimming pools, hospitals, kitchens, slaughter houses, soft drink factories and steam cleaned areas.

## Advantages

- **Quality:** Factory quality controlled pre-weighed quantities reduces site errors.
- **Adhesion:** Good adhesion to steel, concrete and tiles.
- **Waterproof:** Unaffected by water when cured.
- **Application:** Fast application possible and is easily cleaned off with water during initial set.
- **Chemical Resistance:** Highly resistant to a wide range of industrial chemicals.

- **Versatile:** Suitable for grouting joints from 2mm-20mm widths.

## Typical Properties

Pot life 25°C	Normal 1½ hour	Extended 5 hours
Density	1.800	1.800 kg / ltr
Open time hours@20°C	2	5-6
Adjustability hours at 20°C	4	2
Initial set	6 hrs	12 hrs
Initial cure	24 hrs	48 hrs
Full cure	7 days	14 days

## Mechanical Properties

Compressive strength: **ASTM-C 579:** 75 N/mm<sup>2</sup>

Tensile strength: **ASTM-C 307** : 16 N/mm<sup>2</sup>

Bond strength: **ANSI A-118.3E.5.5:** 7 N/mm<sup>2</sup>

Abrasion resistance : Excellent

Impact resistance : Excellent

## Standards

**ASTM-C 881** - Type I, Grade 3

Meets the requirements of ANSI A 118.3.1976

## Chemical Resistance

Excellent to most aqueous systems including sewage, urine, salt water, diluted acids, battery acids, concentrated Alkalies, mineral oils, vegetable oils and fats. The tiled surfaces grouted with KEM EPOXY TILE GROUT may be steam cleaned.

**Colours:** White, light grey, brown, special beige and dark-grey.

## Direction for Use

Application and use of KEM EPOXY TILE GROUT should be in accordance with relevant British Standard codes of practice for tiling works.

**Surface:** Ensure that substrates to be tiled are structurally sound free from grease and oil and do not have excessive laitance. Good surface preparation is necessary to ensure maximum in-service properties and long term performance.



**Mixing:** Mix by adding all the hardener to the base pack stir for 1 minute, and then add the filler component and then stirring thoroughly until a smooth, well mixed paste is obtained. Mixing by use of a slow speed drill and mixing paddle is preferred. Do not split packs or alter the components in any way.

**Bedding:** Apply as a bed of approx 1-3 mm thickness over a working area of a size which can be properly tiled within the pot-life of the material. For floors apply as a "solid bed". On walls the bed may be applied horizontally ribbed by use of a notched trowel.

**Fixing Tiles:** Fix the tiles into the bed by pressing in place, using twisting action. In the case of wall tiles, begin at the bottom and work upwards, and ensure at least 75% of the tile back is in contact with the epoxy. Ensure that the required joint width is left around each tile and is properly spaced out.

**Grouting:** On horizontal, where bedding and grouting is to proceed in one continuous operation, press the tiles into the epoxy bed sufficiently for the epoxy to ooze through the gap between the tiles.

**N.B.:** Allow a slight increase in the epoxy bed thickness to allow this.

The epoxy grout between the tiles may then be "trimmed" off and the grouted joints finished with spatula.

Where grouting is carried out after the bed has set and tiles are permanently fixed in place, apply the epoxy grout to the joints by plastic spatula and finish off.

**Cleaning:** After bedding or grouting, any surplus material should be removed before it sets by use of damp cloth or squeegee. Good workmanship to ensure removal of surplus material before it sets is essential throughout the works.

**Equipment Care:** Tools and equipment may be cleaned immediately after use with water. If necessary, KEM SOLVENT EP may be used.

## Packaging

KEM EPOXY TILE GROUT is available in 1 kg pack.

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## Coverage

**For Tile Fixing:** Varies depending on the surface smoothness. However, for estimation, one may use about 1.5 - 2.0 litres / m<sup>2</sup>

**Grouting:** Depends on Joint Width depth and tile size. For a tile size of 200 mm x 100 mm x 6 mm and joint width of 5 mm, about 0.480 litre of KEM EPOXY TILE GROUT would be required per square meter i.e. in this case, one pack of KEM EPOXY TILE GROUT would cover about 7m<sup>2</sup> of tiled surface.

## Precautions

**Cleaning:** Spillages should be absorbed with sand or earth etc., and disposed in accordance with local regulations. Clean tools and equipment with water/solvents immediately after use.

**Storage:** Store in dry conditions up to 20°C. Shelf life is 12 months.

## Health & Safety

It should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. Fully cured resins are inert and hence harmless.

If mixed resin comes in contact with skin, it must be removed before it gets dry by washing with soap and plenty of clean water. If swallowed, seek medical attention immediately. Do not induce vomiting.

## Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

### Limitation of Liability:

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.