

# KingBond<sup>®</sup> EP25

## Epoxy grout for tiles

### DESCRIPTION

KingBond EP25 is a chemical and abrasion resistant, solvent free epoxy grout for filling quarry and ceramic tile joints. KingBond EP25 is a three component system consisting of a resin base, hardener and selected fillers.

### APPLICATIONS

KingBond EP25 is suitable for use in applications such as:

- ▣ Swimming Pools.
- ▣ Laboratories.
- ▣ Kitchens.
- ▣ Dairy Industries.
- ▣ Meat, Poultry and Food Processing Plants.
- ▣ Hospitals.
- ▣ Abattoirs.
- ▣ Pharmaceutical Plants.

### ADVANTAGES

- ▣ High chemical resistance.
- ▣ High abrasion resistance.
- ▣ Waterproof-impermeable when cured.
- ▣ Suitable for internal and external use.
- ▣ High bond strength.

### METHOD OF USE

#### Surface Preparation

Joint surfaces should clean and free from dust or any contamination. Joints should be cleaned to the full thickness of the tile and in no case less than 2/3 the tile thickness. Joints should be dry before grout filling.

#### Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used.

Stir the base and the hardener individually to disperse any settlement. The entire contents of the base and hardener should be poured into a suitable size container and mixed mechanically for 2 minutes. Add the filler and mix for another 3 minutes, until a uniform color is achieved.

### TECHNICAL PROPERTIES @ 25°C:

Compressive strength: BS6319, Part 2 : 1983	50 MPa @ 7 days
Tensile strength: BS6319, Part 7 : 1985	12 MPa @ 7 days
Pot life:	1 hr.
Initial setting time:	8 hrs.
Full cure:	7 days
Mixed specific gravity:	1.8
Minimum application temperature:	5°C

### PLACING AND FINISHING

Fill the mixed grout into the joints using rubber trowel or by using hand operated gun and cartridges. Excess grout should be cleaned with a proper wet cloth within the material pot life.

### WORKING CONDITIONS

KingBond EP25 should not be applied at temperatures below 5°C.

### CLEANING

Cleaning should be commenced before the grout reaches initial setting. After initial set, product may be removed either by using Kingkrete solvent or by mechanical means but with great difficulty.

### PACKAGING

KingBond EP25 is available in 12 kg packs.

### YIELD

The approximate yield of the grout can be calculated as per the following equation:

$$\text{Yield (m}^2/\text{ kg)} = \frac{5.7}{\text{WD} \left(0.02 + \frac{1}{L} + \frac{1}{H}\right)}$$

Where:

- L: Tile length (cm)
- H: Tile width (cm)
- D: Average joint depth (mm)
- W: Average joint width (mm)

*Note: Grout yield subject to ±15% tolerance.*



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## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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### KK-NA-07.1-BD-EP25-R3-2601

#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

#### NOTE

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