

Cementitious ceramic tile grout with high abrasion/resistance for joints up to 6 mm

DESCRIPTION

KingFill C10 is a high performance and general purpose cementitious tile grout for interior and exterior applications with all types of ceramic tiles such as single glazed, double glazed and porcelain in dry or wet conditions for joint widths up to 6 mm. The high abrasion resistant properties of KingFill C10 make it suitable for grouting floor and wall joints in residential and commercial buildings. KingFill C10 is available in wide range of brilliant colours that provide a uniform and aesthetic joint appearance.

APPLICATIONS

- Grouting all types of ceramic tiles and natural stones up to 6 mm.
- Suitable for commercial and residential buildings.
- Suitable for bathrooms, kitchens and other wet areas.
- Non-sag, excellent for wall applications.
- Excellent for internal and external applications.

ADVANTAGES

- High abrasion resistance.
- Reduced water absorption properties, suitable for wet areas.
- Improved hygienic properties, anti-mould and stain resistance.
- Low shrinkage rate, free of cracks.
- Uniform colour, for aesthetic joint appearance.
- Easy to apply, non-sag with good workability.
- Available in wide range of brilliant colours.

LIMITATIONS

Do not use for:

- Joint widths exceeding 6 mm.
- Grouting tiles in industrial floors where high chemical resistance is required.
- Cases where a rapid utilization of surfaces is required.
- Filling expansion, contraction or construction joints in walls and floors. These joints should be filled with a suitable flexible sealant from the KINGKRETE range.

TECHNICAL PROPERTIES @ 23 ± 2°C. W/P = 0.28

Freeb wet depoits:	1.75 ± 0.1 g/cm ³
Fresh wet density:	
Working time:	70 - 90 min
Compressive strength:	> 15 MPa @ 28 days
ISO 13007-4,4.1.4	
Flexural strength:	> 2.5 MPa @ 28 days
ISO 13007-4,4.1.3	
Shrinkage:	< 3.0 mm/m
ISO13007-4,4.3	
Abrasion resistance:	< 1000 mm ³
ISO 13007-4,4.4	
Water absorption:	< 5 g @ 240 min
ISO 13007-4,4.2	-
VOC:	< 10 g/ltr
ASTM D2369	(complies with LEED)

STANDARDS

KingFill C10 complies with the following standards:

- ISO 13007-3 and BS EN 13888 as an improved cementitious grout with additional characteristics of reduced water absorption and high abrasion resistance (CG2AW).
- ANSI A118.6 as a standard cementitious grout.

METHOD OF USE

Substrate preparation

Before grouting, ensure that the adhesive has completely dried and hardened. Adhesive should be left for 24 hours before applying the grout, unless rapid setting adhesives is used.

All tiles and joints must be clean and free from oil, grease or loose materials.

Remove the tile spacers and ensure that the grout joints are uniform and their width does not exceed 6 mm to avoid slumping.



MIXING

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

1.4 - 1.6 litres of clean fresh water for each 5 kg bag (water/powder ratio of 0.28 - 0.32 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained.

Allow a slake time for 5 minutes, then remix for additional 1 minute without adding any more water.

Important:

- Adding too much water will weaken the joints, cause surface discoloration, and promote the formation of cracks, always follow the mentioned mixing ratio.
- In the case of manual hand mixing, a maximum of 1.6 litres of water for each 5 kg bag is recommended for ease of mixing.

APPLICATION

- Using appropriate spatula or rubber float, fill with pressure the joints completely with KingFill C10.
- Immediately, remove the excess grout by moving the spatula or the edge of the rubber float diagonally to the tiles.
- When the grout starts to set (usually 20 30 minutes at normal conditions), use a damped sponge in a circular motion to remove the excess grout and level the joints.
- After drying, clean the tiles surface using a dry cloth.
- It is recommended to remove grout from the tile surfaces before full setting of the grout. Failure to do so may result in difficulty in removing any remains and makes it necessary to use a mechanical means in cleaning, which may scratch the tile surfaces.

ΥIFIΓ

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

Yield (m²/kg) = $\frac{6}{\text{WD } (0.02 + 1/L+1/H)}$

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.

PACKAGING

KingFill C10 is available in 5 kg bags.

CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

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

QUALITY AND CARE

All products originating from KingKrete's Qatar facility 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.
- ® = Registered trademark of the KingKrete-Group in many countries.

KingKrete-Qatar/KingFill_C10_02/v2/07_20

STATEMENT OF RESPONSIBILITY

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NOTE

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