

# KingFill<sup>®</sup> C200

**Two component, high performance cementitious tile grout with high abrasion resistance characteristics for joint widths up to 8 mm.**

## DESCRIPTION

KingFill C200 is a two component cementitious tile grout consists of blend of cement, well graded aggregate and special additives that when mixed with synthetic latex admixture (i.e. rubber emulsion) forms a high performance tile grout for all types of ceramic tiles and natural stone for joint widths up to 8 mm.

The high mechanical strength properties of KingFill C200 make it suitable for grouting floors and walls in high traffic areas such as shopping centres and hospitals, and the reduced water absorption feature makes it ideal to be used in permanently wet areas such as bathrooms and kitchens.

KingFill C200 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 stone up to 8 mm joints.
- ☐ Ideally suitable for grouting high traffic areas such as shopping centers, hospitals and universities.
- ☐ Suitable for bathrooms, kitchens and other wet areas.
- ☐ Non-sag, excellent for wall applications.
- ☐ Excellent for internal and external applications.

## ADVANTAGES

- ☐ Optimum abrasion resistance for higher durability.
- ☐ 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.

## TECHNICAL PROPERTIES @ 23 ± 2°C

Fresh wet density:	1.8 ± 0.1 g/cm <sup>3</sup>
Compressive strength: ISO 13007-4,4.1.4	> 15 MPa @ 28 days
Flexural strength: ISO 13007-4,4.1.3	> 2.5 MPa @ 28 days
Working time:	70 min
Shrinkage: ISO 13007-4,4.3	< 3.0 mm/m
Abrasion resistance: ISO 13007-4,4.4	< 1000 mm <sup>3</sup>
Water absorption: ISO 13007-4,4.2	< 5 g @ 240 min
Compressive strength: ANSI A118.6, 4.5	≥ 24 MPa @ 28 days
Tensile strength: ANSI A118.6, 4.6	≥ 2.2 MPa @ 7 days
Flexural strength: ANSI A118.6, 4.7	≥ 2.5 MPa @ 7 days
VOC: ASTM D2369	< 10 g/ltr (complies with LEED)

## LIMITATIONS

Do not use for:

- ☐ Joint widths exceeding 8 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.

## STANDARDS

KingFill C200 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 sanded cement grout.

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## 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 adhesive 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 widths do not exceed 8 mm to avoid slumping.

### Mixing

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

The liquid part of KingFill C200 should be added to a clean container. The powder is then added slowly to the liquid 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.

## APPLICATION

- ☞ Using appropriate spatula or rubber float, fill with pressure the joints completely with KingFill C200.
- ☞ 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.

## YIELD

The approximate yield of the powder part of KingFill C200 can be calculated as per the following equation:

$$\text{Yield (m}^2\text{/kg)} = \frac{6}{\text{WD (0.02 + 1/L+1/H)}}$$

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 C200 is available in 20 kg packs (15.15 kg powder and 4.85 kg liquid).

## 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



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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.

® = Registered trademark of the KingKrete-Group in many countries.

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### 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

