

KingTile® C200

Single component, highly flexible, fiber reinforced ceramic tile and stone adhesive with slip resistance and extended open time

DESCRIPTION

KingTile C200 is a single component, high performance, fiber reinforced tile adhesive consisting of a blend of cement, well graded aggregate, and high content of modified polymers that forms when mixed with water an outstanding tile adhesive that is capable of fixing all types of heavy or large ceramic tiles and natural stone on all common construction substrates that may be subjected to vibration or limited deflection internally or externally.

The high flexibility characteristics of KingTile C200 make it highly recommended for fixing large format tiles or heavy natural stone such as marble and granite on floors and walls, these characteristics make it an excellent choice for fixing tiles over headed screed or for external applications like balconies and terraces where floors and walls are continuously exposed to temperature variations.

APPLICATIONS

Laying large format or heavy tiles and natural stone over concrete and cement base screed, mortar and plaster substrates.

- ☐ Laying all types of ceramic tiles and stone on all common construction substrates where slight movements or deflections are likely.
- ☐ Highly recommended with underfloor heating systems.
- ☐ Superb in fixing tiles in external floors and walls exposed to severe environmental conditions.
- ☐ Recommended for bathrooms, kitchens and other wet areas.
- ☐ Can be used for tile over tile applications.
- ☐ On drywall such as gypsum boards and plaster boards.

ADVANTAGES

- ☐ High flexibility characteristic to cope with the movement in substrates.
- ☐ High bond strength.
- ☐ Extended open time for easier application.
- ☐ Easy to apply, non-sag with good workability.
- ☐ Ready mixed, just requires an addition of water.

TECHNICAL PROPERTIES W/P = 0.28:

Colour:	White or grey
Fresh wet density:	1.75 ± 0.1 g/cm ³
Open time: ISO 13007-2.4.1	30 min
Pot life:	2 hr @ 25°C
Shear strength, Porcelain tile: ANSI A118.4,5.2.4	>1.4 MPa @ 28 days
Shear strength, Porcelain tile after immersion: ANSI A118.4,5.2.3	>1 MPa @ 7 days
Shear strength, Glazed wall tile: ANSI A118.4,5.1.5	> 2.1 MPa @ 28 days
Tensile adhesion strength in compliance with ISO 13007-2.4.4	
Initial bond @ 28 days	>1.0 MPa
After heat exposure	>1.0 MPa
After water immersion	>1.0 MPa
After freeze/thaw cycles	>1.0 MPa
Slip: ISO 13007-2.4.2	< 0.5 mm
Transverse deformation: ISO 13007-2,4.5	≥ 2.5 mm
VOC: ASTM 2369	< 10 g/ltr (complies with LEED)

LIMITATIONS

Do not use for:

- ☐ Thick bed applications.
- ☐ Cases that require a rapid utilization for the surfaces.
- ☐ On metal, rubber, PVC or wood substrates.

STANDARDS

KingTile C200 complies with the following standards:

- ☐ ISO 13007-1 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance, extended open time and deformability characteristics (C2TES1).
- ☐ ANSI A118.4 for shear strength requirements.

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METHOD OF USE

Substrate Preparation

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material.

Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements.

Gypsum boards, plaster boards, anhydrite screeds, or any highly absorbent cement based substrates such as hollow blocks and foam concrete must be sufficiently dry and free from dust. These substrates must be primed with Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water).

Tiles should not be placed over expansion and contraction joints, these joints should be filled with a suitable flexible sealant from the KINGKRETE KingSeal range.

Mixing

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

6.75 - 7.25 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.27 - 0.29 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 a lump free mixture is obtained. Allow the mix to rest for 2 - 3 minutes, then remix for an additional minute without adding any more water.

APPLICATION

- ☐ Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel.
- ☐ Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm.
- ☐ Place the tiles with firm pressure to ensure proper contact with the adhesive.
- ☐ It is always better to work in a manageable area that can be tiled within the open time of the adhesive.
- ☐ Leave the tiled surfaces for 24 hours before grouting.

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

REMARKS

- ☐ Do not apply at temperatures below 2°C.
- ☐ For heavy traffic or submerged areas, it is good practice to apply adhesive to the back of the tile to ensure 100% coverage.
- ☐ For large format and heavy tiles where the weight of the tiles cannot be supported by the adhesive, the installation method shall follow a bottom-up approach, and if more than two rows of tiles are to be fixed simultaneously, the tiles are to be mechanically supported using temporary anchor nails in between tile gaps or by using inclined support stud.
- ☐ For further information please contact your local KINGKRETE Office.

PACKAGING

KingTile C200 is available in 25 kg bags.

YIELD

Approximately 9 m² per 25 kg bag @ 2 mm thickness.

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.



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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-SAS-06.3-TC-C200-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

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.

