

KingTile® C5G

High strength, thick-bed tiling screed.

DESCRIPTION

KingTile C5G is a one component blend of cement, well graded aggregates and special additives used to create screeds for the installation of external block stone paving and bricks, it is also applied as a thick-bed screed followed by a slurry layer to fix stones, granites, marbles or any other type of tiles.

KingTile C5G is used along with KingFill S10 grout to create architectural stone paving with high durability and resistance to environmental conditions.

APPLICATIONS

KingTile C5G is used as an installation screed for natural stone, granite and marble architectural flooring in public areas, roads, pavements, parking lots and pedestrian crossings. It is suitable for use with:

- ☒ Self-locking blocks.
- ☒ Small blocks.
- ☒ Bricks.
- ☒ Pre-casted stones, ceramic, marbles, granite and natural stones.
- ☒ Architectural pavers.

ADVANTAGES

- ☒ High compressive strength.
- ☒ Good water resistance.
- ☒ High bond strength.
- ☒ Ready mixed, just requires the addition of water.
- ☒ Suitable for internal and external applications.

STANDARDS

Meets the exposure classes XF3, XF4 and XS3 according to EN206-1:2006 recommended limiting values.

METHOD OF USE

SURFACE 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. Curing compounds and sealers, if present, must be removed by mechanical means.

TECHNICAL PROPERTIES

Colour:	Grey
Fresh wet density:	2.1 ± 0.1 g/m ³
Maximum aggregate size:	6 mm
Compressive strength: EN 13892-2	> 20 MPa @ 1 day > 50 MPa @ 28 days
Flexural strength: EN 13892-2	> 2 MPa @ 1 day > 6 MPa @ 28 days
Working time:	130 - 150 min @ 25oC
Thickness of application:	30 mm – 100 mm

PRIMING

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down with water.

MIXING

Mix the 25 kg bag of KingTile C5G with 2 - 2.5 litres of water using a heavy duty slow speed drill-paddle assembly or concrete mixer for mixing. Mix properly until a homogenous mix with zero-slump consistency is achieved. The amount of water should be minimal to attain the optimum properties of the bedding screed.

Note: It is recommended that in hot weather application, chilled water is used to extend the working time of the mixed material.

APPLICATION

Spread the mixed material over the surface in a uniform thickness, but in small areas at a time. Make sure that the consistency of the mortar remains the same in order to maintain its characteristics.

If the flooring is made from slabs or large non porous tiles, before laying the stone on the fresh KingTile C5G installation layer, apply a layer of bonding slurry made by mixing 1 part KingBond SBR100: 2 parts OPC cement by weight. Pour the properly mixed slurry over the levelled bedding screed whilst wet at a thickness of 2 to 3 mm and immediately install the tile or stone.

Lay the stone in the pattern required with a 5 to 15 mm gap around each piece. After laying the stone on the zero-slump consistency mix, wet the flooring with water to hydrate the installation layer and tamp the surface of the stone.

Before pouring the grouting mortar into the joints, sprinkle the surface of the stone with water, clean the joints and

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remove any freestanding water and uneven or loose areas.

For grouting the joints, KingFill S10 is recommended to be applied the same day of installing the stone, before the installation layer has completely set, at that is in order to form a monolithic flooring.

If required by the surrounding conditions (high temperatures, rain, low temperatures, etc.), once grouting has been completed, protect the flooring for at least 12 hours after application with a suitable protective or anti-evaporation system, in order to prevent it from drying out too quickly and to keep the product at the correct temperature.

Protect the tiled surface from light traffic for at least 24 hours.

CLEANING

All tools should be cleaned immediately after finishing by water.

PACKAGING

KingTile C5G is available in 25 kg bags.

YIELD

Approximately 13 litre per 25 kg bag.

CONSUMPTION

KingTile C5G: Approximately 58 kg/m² for 30 mm of thickness.

KingBond SBR100: Approximately 1.75 ltr/m² for 3 mm thickness of slurry.

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 Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

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