

KingFix[®] C10

General purpose, cementitious tile adhesive with high slip resistance for internal and external use

DESCRIPTION

KingFix C10 is a general purpose, polymer modified cement based tile adhesive for bonding all types of ceramic tiles and stone on most common construction substrates for internal and external applications using the thin bed method.

KingFix C10 is supplied in the form of white or grey powder that is ready to use with the addition of water to provide a good workable and easy to apply tile adhesive.

Since it has excellent slip resistance properties, KingFix C10 is suitable to be applied vertically without sagging and with no need for using spacers for normal sized tiles. KingFix C10 can be used in wet or dry conditions.

APPLICATIONS

- ☐ For wall and floor applications.
- ☐ Suitable for exterior and interior applications.
- ☐ Can be used in wet areas such as bathrooms and kitchens.
- ☐ Can be used with under floor heating systems.
- ☐ On concrete, cement based mortar, screed and plaster.
- ☐ On drywall such as gypsum boards and fiber cement boards.

ADVANTAGES

- ☐ General purpose can be used in wet or dry conditions, internally or externally.
- ☐ Good bond strength to all common substrates.
- ☐ Easy to apply, non-sag with good workability.
- ☐ Economical.
- ☐ Ready mixed, just requires the addition of water.

LIMITATIONS

Do not use for:

- ☐ Continuously submerged conditions.
- ☐ Thick bed application that requires an adhesive layer more than 5 mm thick.
- ☐ Tile over tile applications.
- ☐ Cases that require a rapid utilization for the surfaces.
- ☐ On metal, rubber, PVC or wood substrates.

TECHNICAL PROPERTIES W/P = 0.28:

Colour:	White or grey
Fresh wet density:	1.85 ± 0.1 g/cm ³
Open time: ISO 13007-2.4.1	20 min
Pot life:	2 hr @ 25°C
Shear strength to impervious tile: ANSI A118.4, 5.2.2 & 5.2.4	> 14 kg/cm ² @ 7 days > 24 kg/cm ² @ 28 days
Shear strength to impervious tile after water immersion: ANSI A118.4, 5.2.3	>10.5 kg/cm ² @ 7 days
Tensile adhesion strength in compliance with ISO 13007-2.4.4	
Initial bond @ 28 days	>0.5 MPa
After heat exposure	>0.5 MPa
After water immersion	>0.5 MPa
After freeze/thaw cycles	>0.5 MPa
Slip: ISO 13007-2.4.2	< 0.5 mm
VOC: ASTM 2369	< 10 g/ltr (complies with LEED)

Note: For highly impervious tiles such as glass mosaics or full body porcelain tiles, Cemfix GP should be mixed with Cemfix Enhance to improve the adhesion characteristics. Refer to Cemfix Enhance's datasheet or consult KINGKRETE's Technical Department for more information.

STANDARDS

KingFix C10 complies with the following standards:

- ☐ ISO 13007-1 and BS EN 12004 as a normal cementitious tile adhesive with slip resistance (C1T).
- ☐ ANSI A118.4 "Standard Specification for Latex-Portland Cement Mortar".

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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 Key bond 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 Flexseal 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 free of lumps mixture is obtained.

Allow a slake time for 2 - 3 minutes, then remix for additional 1 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 areas, it is good practice to back butter the tile back surfaces with the adhesive 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 Representation Office.

PACKAGING

KingFix C10 is available in 25 kg bags.

YIELD

Approximately 8.75 m²/25 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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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.