KingFloor ® C100T

Trowel applied cementitious screed.

DESCRIPTION

KingFloor C100T is a pre-bagged trowel-applied cementitious screed for use as a levelling mortar and medium-duty base underlayment. The product consists of well-graded sand particles, a blend of cement, additive and fibers to ensure ease of use and produce consistent quality screed.

APPLICATIONS

KingFloor C100T is formulated for use as a basic screed and trowel applied levelling mortar for applications such as:

- Floor levelling before tiling works.
- Repair of breakage caused by mechanical and electrical
- fittings installations or maintenance.
- Repair of damaged plaster.
- Topping overheated flooring conduits.
- Can be installed over hardwood, metal surfaces as a base layer.

ADVANTAGES

- Pre-mixed and only requires the addition of water.
- Elimination of manual labour quality problems resulting from onsite screed proportioning.
- Saves storage space of screed mixing raw materials (sand, cement).
- Reducing dust and material loss resulting from open storage of screed raw materials.
- Cost-effective, easy to apply.
- Smooth finish.

STANDARDS

KingFloor C100T complies with EN 13813, Class CT-C35- F6-AR1.

METHOD OF USE

Substrate preparation

Concrete substrates should be fully cured and achieve a minimum compressive strength of 25 N/mm2 and a minimum pull-off strength of 1.5 N/mm2. The concrete substrate should be below 75% RH and have less than 4% moisture content. Alternatively, KingFloor DPM should be applied according to the priming section.

TECHNICAL PROPERTIES

Colour:	Cement grey
Compressive strength: EN 13892-2	25 MPa @ 7 days 35 MPa @ 28 days
Flexural strength: EN 13892-2	> 6 MPa
Maximum wear depth: BS EN 13892-4	0.095mm
Fresh wet density:	2.2 ± 0.01 g/cm³
Working time:	0.5 - 1 hr @ 25°C
Maximum grain size:	3 mm
Application thickness:	10 - 50 mm

Surface preparation

Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces. Surfaces should be sound and with no irregularities as they can affect the finish of the applied product.

Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Acid etching can be used after consulting with KINGKRETE's Technical Department. Surface defects such as voids and blowholes should be repaired before application. Consult KINGKRETE's Technical Department for the best repair material.

Surfaces must be free of any dust or lose particles before product application. Use suitable methods like vacuuming or sweeping. If possible, apply the product on a small test area before the actual application to check for any problems with the surface preparation.

MIXING

Mix the contents of the bag with 6.5 - 7.5 litre for 50 kg bag and 3.25 – 3.75 litre for 25 kg bag of fresh clean water using a drum or free fall mixer for 3 - 5 minutes before spreading.

KingFloor ® C100T

PRIMING

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down to minimize pin holing. Ensure that the surface is in a saturated surface dry condition i.e. no visible surface water before application of KingFloor C100T.

For surfaces with RH between 75% and 85%, without the need to dampen the surface, prime with one coat of KingFloor DPM and allow to dry before application of KingFloor Primer.

For surfaces with RH greater than 86%, without the need to dampen the surface, prime with two coats of KingFloor DPM and allow the second coat to dry before the application of KingFloor Primer.

After KingFloor DPM has been applied and left to cure, apply KingFloor Primer and whilst it is still tacky fully blind with Anti-slip Aggregate #2 at approximately 3 kg per m2, until the surface is covered and no resin spots remain. Allow to dry fully overnight and remove excess aggregate before applying KingFloor C100T.

APPLICATIONS

The mixed mortar shall be spread evenly by trowel and tamped well in place with wooden float at a thickness of 10 - 50 mm in single application. Greater thickness can be achieved by application of multiple layers. KingFloor C100T shall be finished with steel trowel to achieve the required smoothness and to fully close the surface.

CURING

Since KingFloor C100T is a cementitious based material, it is recommended that freshly hardened surfaces are cured with damp hessian or to be covered with polyethylene sheets, especially in harsh climatic conditions like direct sunlight, flow of wind, elevated temperatures, etc.

COVERAGE

Approximately 20 kg per m² @ 10 mm thickness.

PACKAGING

KingFloor C100T is available in 25 and 50 kg bags.

CLEANING

All tools should be cleaned immediately after finishing by water.

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 manufacturing facilities are manufactured under a

KingFloor ® C100T

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.

K KK-SAS-05.1-FL-C100T-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.

KingKrete South Asia
www.kingkrete.com

Disclaimer: the IAS mark relates to certified management system and not to the product mentioned on this datasheet