KingDeck® PC100

Solvent-free epoxy resin based primer.

DESCRIPTION

KingDeck PC100 is a two component, solvent- free epoxy primer with excellent adhesion to concrete and cementitious substrates. KingDeck PC100 is formulated for easy application by squeegee, roller or brush to concrete and screed substrates for the application of KingDeck HP System / KingDeck HPU/ KingDeck HPW car park decking systems.

APPLICATIONS

KingDeck PC100 is used as a prime coat to aid improving adhesion of subsequent layers of KingDeck Polyurethane Car Park decking systems from KINGKRETE. It can also be used as a primer for subsequent epoxy layer. One or two coats should be applied depending on surfaces' porosity.

METHOD OF USE

Substrate Preparation

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, consult with KINGKRETE's Technical Department.

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 loose particles before product application. Use suitable methods like vacuuming or sweeping. If possible, apply the product on a small test area before actual application to check for any problems with the surface preparation.

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TECHNICAL PROPERTIES

Colour:	Brownish clear
Mixed density:	1.5 ± 0.1 g/cm3
Volume solids:	100%
Pot life @ 25oC:	60 - 90 min
Over-coating time @ 25oC:	24 hr
Full cure @ 25oC:	7 days
Bond strength on C25/30 concrete: ASTM D4541	≥ 2.0 MPa (concrete failure)

MIXING

KingDeck PC100 comprises two components; a resin and hardener which are supplied pre-weighted in the correct proportions. Under no circumstances should part mixing be carried out. Taking care to ensure that the bottom and sides are thoroughly drained, pour the contents of the hardener portion into the resin container.

Using a power whisk attached to a slow speed electric drill, mix for approximately 2 minutes, scrape down and re-mix for a further 1 minute, avoiding the entraining of excessive air, until a uniform consistency is obtained.

Allow to stand for 1 minute.

Note: Never mix KingDeck PC100 by hand as this could lead to areas of uncured material.

APPLICATION

Once mixing is complete, spread the KingDeck PC100 onto the prepared surface by brush or lamb's wool roller.

To obtain an anti-slip finish, whilst KingDeck PC100 is still wet, broadcast with Antislip Aggregate #3 according to the table of the coverage rates and allow to dry. All excess aggregates shall be removed before applying the final top coats.

Overcoating

KingDeck PC100 may be over-coated as soon as it becomes tack free within 24 hours.

REMARKS

- KingDeck PC100 should not be applied when the ambient or substrate temperature is below 10oC or where ambient relative humidity exceeds 80%. At low application temperatures (i.e. below 15oC) it is recommended to store the unmixed materials at warm conditions (i.e. around 25oC) 24 hours prior to the application.
- KingDeck PC100 should not be applied on surfaces which are known to suffer from rising damp. If the

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concrete humidity exceeds 75%, KingFloor DPM should be used. Consult KINGKRETE's Technical Department for more information.

CLEANING

Tools should be cleaned with KINGKRETE Solvent immediately after use.

PACKAGING

KingDeck PC100 is available in 18 kg packs.

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

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