KINGKRETE®
We Create Future

KingProof® C10

Flexible acrylic cement modified waterproof coating.

DESCRIPTION

KingProof C10 is a two component polymer modified cementitious, flexible waterproof coating for internal and external applications available in many attractive colours.

APPLICATIONS

For waterproofing of water retaining structures and reservoirs.

For waterproofing of wet areas such as bathrooms and kitchens.

To provide protection for concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.

ADVANTAGES

- Waterproof, suitable for water retaining structure and basements.
- Breathable, water vapour preamble.
- Durable, excellent resistance to UV attack.
- Excellent protection against carbon dioxide, chloride ions and water.
- Non-toxic, suitable for drinking water.
- Cost effective, quick and easy brush or spray application.
- Suitable for internal and external applications.

METHOD OF USE

Substrate Preparation

The surfaces to be coated should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials. This is best obtained by using high pressure water or light grit blasting.

Honey combing, damaged or deteriorated concrete exists, the substrate should be repaired using suitable low permeability repair mortar from KINGKRETE repair systems before commencing the coating.

PRIMING

No primer is required, but substrates should be pre-soaked with clean water prior to application of KingProof C10.

MIXING

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

TECHNICAL PROPERTIES

@ 25°C

Mixed density:	1.8 ± 0.1 g/cm³
VOC:	< 10 g/ltr (powder) < 20 g/ltr (liquid)
Working time:	45 min
Tensile strength: BS 6319, Part 7	> 2.0 MPa @ 7 days > 2.5 MPa @ 28 days
Bond strength: ASTM D4541	≥ 1.5 MPa @ 28 days
Flexural strength: BS 6319, Part:3	> 4 MPa @ 7 days > 5 MPa @ 28 days
Resistance to water pressure: DIN 1048	> 30 m (3 bars) positive (2 mm thickness)
Mixing ratio:	5 kg liquid polymer with 15 kg powder
Minimum application temperature:	5°C
Chloride ion resistance: 3 months 6 months	Coated % Cl penetration: 0.0003 Uncoated % Cl penetration: 0.018 Coated % Cl penetration: 0.0003 Uncoated % Cl penetration: 0.035

Note: These results were achieved using 2mm thickness.

The 5 kg of KingProof C10 liquid should be added to a clean container. The 15 kg powder is then added slowly to the liquid while mixing continuously with low speed mixer/ drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

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APPLICATION

KingProof C10 can be applied by brush or spray. The mixed material should be brushed well into the surface. Strike off with the brush in one direction.

Care must be taken not to spread the material too thin. When the material begins to drag, do not add any water, but dampen the surface again.

Leave the first coat overnight to cure before applying the second coat. If the first coat is left for more than one day or if it is very dry, pre-soaking with clean water is needed before applying the second coat. The second coat shall be applied by brush in a similar way to the first layer but preferably perpendicular to the previous layer to ensure good bond and coverage.

REMARKS

KingProof C10 should not be applied to frozen substrate or if ambient temperature is below 5°C or expected to fall below 5°C.

CLEANING

All tools should be cleaned immediately after finishing by clean water. Hardened materials should be cleaned mechanically.

PACKAGING

KingProof C10 is available as 20 kg packs (5 kg polymer & 15 kg powder).

COVERAGE

Approximately 11.5 - 12.5 m² per 20 kg for one coat @ 1 mm thickness, depending on the condition of the surface and method of application.

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.

Ref: KK-08016-MEA-R01 | Issue: 01.2026

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 Middle East
www.kingkrete.com

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