

KingFloor® CP

Three component polyurethane coving material for wall/floor surface joints.

DESCRIPTION

KingFloor CP is a three component water based trowel applied polyurethane resin based coving system. KingFloor CP is used to form seamless radius coving at the junction between wall and floor surfaces.

KingFloor CP is highly durable and when sealed with KingFloor CP Seal has very good resistance to many of the chemicals commonly found in industrial environment (consult our Technical Department for further details). KingFloor CP can be supplied in a range of colours (consult our Sales Department for further details).

APPLICATIONS

KingFloor CP is designed for applications where high hygienic flooring is required with high resistance against impact, thermal shock, abrasion and chemicals. KingFloor CP is suitable for use in dairies, breweries, food processing areas, cold stores, freezer rooms, kitchens, etc. KingFloor CP can be steam cleaned and is resistant to boiling water and process liquids.

ADVANTAGES

- ☑ Provides hygienic floors.
- ☑ Resistant to boiling water and to a wide range of chemicals (consult KINGKRETE Technical Department for more details).
- ☑ Hard wearing and excellent impact resistance.
- ☑ Resistant to thermal shock and to temperatures – 40oC to 120oC at 9 mm thickness; – 40oC to 70oC at 6 mm thickness.
- ☑ Easy to clean.
- ☑ Resistant to freeze/thaw cycles.

Note: KingFloor CP is not colour stable and may dis-colour on ageing and exposure to UV light, especially with light colours. This will not adversely affect the performance of the product.

METHOD OF USE

Substrate Condition

The surface must be clean, dry (less than 75% RH measured by hygrometer) and free of dust, laitance, oils, paints or other forms of contamination (see the KINGKRETE Guide to Surface Preparation for further details). To ensure a good bond to the substrate, a 20 mm deep x 8 mm wide rebate must be cut around the edges of the floor and wall and running parallel to them, 150 mm from the walls and 100 mm from the floor.

TECHNICAL PROPERTIES

Appearance:	Matt textured surface
Color:	Available in a range of colours
Mixed density:	2.0 ± 0.05 g/cm ³
Working time:	20 - 25 min @ 25oC 15 min @ 35oC
Tack-free time:	1 hr
Maximum overcoat time:	48 hr
Full cure:	7 days
Temperature resistance:	– 40oC up to 120oC @ 9 mm thickness – 40oC up to 70oC @ 6 mm thickness
Application temperature:	5 - 35°C
Maximum Wear depth (KingFloor CP Seal/Cove Pack): EN 13892-4	0.01 mm
Bond strength: EN 13892-8	> 2 MPa (concrete failure)
Impact resistance: ASTM D 2794	> 7 N.m
VOC: ASTM 2369	< 20 g/L

SURFACE PREPARATION

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, such areas should be treated by hot compressed air.

KingFloor CP/ KingFloor Primer
Cove Pack Seal
KingFloor HD Substrate

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PRIMING

Surfaces must be primed with KingFloor Primer prior to application with KingFloor CP. The KingFloor Primer must be allowed to reach a tacky finish, typically 1-2 hours at 20°C. More than one coat of primer may be required for highly porous or textured surfaces.

For surfaces with RH between 75 and 85%, prime with 1 coat of KingFloor DPM and allow curing before priming with KingFloor Primer.

For surfaces with RH greater than 86%, prime with 2 coats of KingFloor DPM and allow the second coat to cure before priming with KingFloor Primer.

MIXING

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the KingFloor CP Hardener container into the Resin container and, using a Jiff y-type mixer attached to a slow running electric drill, mix for approximately two minutes. Once the KingFloor CP base and hardener have been mixed, transfer the entire contents of the base container into a Casco or Cret angle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the KingFloor CP filler, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately two minutes.

Never mix KingFloor CP by hand as this could lead to areas of uncured material.

Working Time

KingFloor CP has a working time of approximately 20 to 25 minutes at 25°C.

Working Conditions

KingFloor HD should not be applied at temperatures less than 5°C and not higher than 35°C.

CLEANING

Tools should be cleaned with water immediately after use.

PACKAGING

KingFloor CP is available in 18 kg (9 litre) packs.

COVERAGE

KingFloor primer: 0.25 – 0.30 kg/m²/coat. KingFloor CP: Depends on cove radius.

APPLICATION

On completion of mixing immediately apply KingFloor CP at the required thickness to KingFloor primer.

Apply a small amount of KingFloor CP to the floor/wall transition and trowel with a cove trowel of the appropriate radius. Work the cove trowel back and forth with increasing pressure to blend the cove into the vertically and horizontally applied primer. A spoon may be useful when shaping corners of the cove.

Make a final pass with the trowel to smooth any marks in the cove. If necessary, a small amount of light water mist may be used to help reduce trowel drag.

When applying each pack of KingFloor CP, leave approximately 200 mm of the closest working edge untrowelled as this will help the blending in of the next pack.

Take care not to excessively trowel the KingFloor CP as this will lead to burnish marks on its surface.

Note: Never leave the mixed KingFloor CP to stand for any length of time before application, as this will considerably shorten its working time.

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.



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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-07025-MEA-R01 | Issue: 01.2026

STATEMENT OF RESPONSIBILITY

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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
Qatar – Syria
www.kingkrete.com

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