

TECHNICAL DATA SHEET



CP FLOORTEK Waterborne Epoxy Primer

(SUPERIOR EPOXY FLOOR PROTECTION)

(Three Pack Water-based Epoxy Primer for floors)

DESCRIPTION:

CP FLOORTEK Waterborne Epoxy Primer is a water based, three-pack epoxy resin matrix which is designed to prime a wide range of mineral surfaces. It will provide superior adhesion and eliminate sink back and dry patches when top coating surfaces. The product exhibits the properties of dust proofing and provides excellent stain resistance to oils and other contamination and can also be used as a protection coat on interior floors in a wide range of residential, commercial and industrial environments where a lasting solution for maintenance and hard-wearing protection is required. This product is easy to apply, easy to clean and maintain.

AREA OF APPLICATION

It is recommended on interior floors which require high mechanical and chemical resistance:

- Undercover Carparks and Restaurants.
- Butcher Shops and Commercial Kitchens.
- Food Processing Plants & Grocery Stores.
- Factories, Warehouses & Commercial Buildings.
- Schools, Stadiums and Workshops.
- Salons, Retail Stores and Wineries.
- Shopping Centers, Office Buildings &. Garage floors.

The surfaces require appropriate preparation prior to the application of CP FLOORTEK Waterborne Epoxy Primer.

KEY FEATURES

- High-performance water-based epoxy.
- Excellent adhesion/inter-coat adhesion.
- Extreme abrasion resistance.
- High durability.
- Excellent water & chemical resistance.
- Extraordinary resilience.
- Retards growth of mold, fungus, mildew and bacteria.
- Perfect for heavy-duty environments.
- Solvent free.
- Easy to apply, clean & maintain.

TECHNICAL CHARECTIRISTICS

- **Type:** Three pack Water based epoxy system
- **Mixing Ratio:** Component A: Component B: Component C (Resin: Hardener: DM Water): 1: 2: 2 (by weight)
- **Finish:** Smooth
- **Appearance (Cured):** Semi-Gloss

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- **Pot life** (RH 50%): 6 Hrs. max. Do not use after exceeding the pot life. Mixed batch will be still liquid but doesn't provide appropriate adhesion anymore.
- **Theoretical Coverage:** 40-50 m² / 5Kg. kit (Depends surface nature, porosity, penetration rate etc.)
- **Application:** By brush or roller
- **Clean-up:** Water.
- **Shelf Life:** 12 months for all components (in the original sealed container under proper storage condition). Keep from freezing.

APPLICATION RATE: Apply CP FLOORTEK Waterborne Epoxy Primer at the rate of approx. 40-50 m² / kit (5kg)

CURING DETAILS:

- Surface Dry: 30 minutes
- Tack-Free Dry: 1 – 2 hours
- Dry to recoat – Walk-ability: 6 - 24 hours
- Full hardening: 7 days

RECOMMENDED SYSTEM:

	Product	Mixing Ratio	Coverage
1. Primer	CP FLOORTEK Waterborne Epoxy Primer	Component A-Resin: Component B-Hardener: Component C -MD Water 1: 2: 2 (by weight))	40-50 m ² / 5Kg. kit)
1. Screed	CP FLOORTEK SF Epoxy Screed SL 1000/ 2000	1:1:4 (by weight) (Resin: Hardener: Aggregates)	1.5 Kg/ m ² /1.0 mm. (SL1000) 3.0 Kg/ m ² /2.0 mm (SL2000)
2. Overlay	CP FLOORTEK SF Epoxy SL Topcoat	4.03: 2.22: 0.29: 8.46 (by weight) (Resin: Hardener: Color concentrate: Aggregates)	1.5 Kg/ m ² /1.0 mm

DIRECTIONS FOR USE

The concrete must be with a tensile strength of $\geq 1,5\text{MPa}$, and allowed to be cured for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open- textured surface to ensure optimum adhesion.

SURFACE PREPARATION

- Conduct a Clean, Dry, and Sound (CDS) test on the concrete surface.
- Perform a moisture test using a moisture meter. WB Primer can be applied on moist surfaces, but not wet surface.
- Relative air humidity (RH): <70%
- Prepare the surface through scarification, grinding, or shot blasting to achieve a profile of 150–200 microns.

MIXING: First mix Component A- Resin part and Component B-Hardener part thoroughly, always add Component C-DM Water part after and keep mixing until uniform within the system. Always mix full pack sizes to avoid incorrect measure of ratio.

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- **Step:1-**Mix 1 part Component A-Resin of CP FLOORTEK Waterborne Epoxy Primer with 2 parts of Component B- Hardener of CP FLOORTEK Waterborne Epoxy Primer. Always add Hardener into Resin and make sure to add Hardener part slowly while mixing Resin part.
- **Step:2-** Add 2 parts Component C- DM Water of CP FLOORTEK Waterborne Epoxy Primer, slowly to the above Component A-Resin and Component B-Hardener mix.
- **Step:3-**Use a mechanical mixer to ensure thorough and uniform mixing and avoid aeration when mixing the product. The appearance of mixed material is milky.

PRIMING: The surfaces require appropriate preparation prior to the application of CP FLOORTEK Waterborne Epoxy Primer. The primer components should be mixed in the given proportions as supplied and it would be better to provide an induction time of 15 -20 minutes for the mixed material, before application. The ideal application temperature should be between 23 deg.C to 30 deg.C. After priming, the surface must be kept for drying- approximately 8-12 hrs.

It is recommended to do a field trial prior to large scale application.

APPLICATION: CP FLOORTEK Waterborne Epoxy Primer coat with approximately 10 m²/kg. Spread rate depends on porosity of substrate. Use a brush and roller to apply the product. We recommend using a lint free epoxy roller. If a second coat is required, must be applied within 24 hours of the application of the first coat to ensure the second coat will bite into the first coat. After 24 hours the first coat must be sanded prior application of the second coat to assure a sound adhesion between coats. Do NOT use after exceeding the pot life. Mixed batch will be still liquid but doesn't provide appropriate adhesion anymore. Discard all leftover material. Do NOT pour mixed unused material back into the original containers as this will start the whole material to expire within the drum.

Clean all equipment immediately, with water after the use

PACKAGING:

Available in pre - weighed kits– 5 Kgs. (Includes 1 kg Resin + 2 kg Hardener + 2 kg. DM Water). Marked Component A, Component B and Component C respectively.

STORAGE AND SAFETY PRECAUTIONS

- Store in accordance with national regulations.
- Do not allow to freeze.
- Keep in a cool, well-ventilated area, away from heat, direct sunlight, and sparks.
- Ensure the product is inaccessible to children.
- Handle with care and mix resin and hardener as per the specified ratio.
- Use the mixed solution within the pot lifetime.
- Avoid skin and eye contact by wearing overalls, gloves, goggles, masks etc.
- Painting must be carried out in well-ventilated area and away from the open flames/sparks.
- Local regulations need to be followed.

SPECIAL NOTES:

- In case that an extended period (>36 hours) has passed between successive layers, it is recommended to lightly sand the surface of the previous layer, to avoid possible adhesion problems of the next layer.
- Due to the nature of the material, direct and constant exposure of the final coating to UV radiation may cause the phenomenon of chalking over time. For this reason, it is not recommended for exposed applications outdoors.
- Not recommended for use on surfaces subject to vibrations or thermal shocks

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Disclaimer: The information on this data sheet, concerning the uses and the applications of the product, is based on our experience and knowledge. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Crown Paints Kenya PLC control. Technology may change with time, necessitating changes to this Technical Data Sheet (TDS). Crown Paints Kenya PLC reserves the right to amend the TDS without any further notice.

It is the responsibility of the user to ensure that the latest TDS is being used for reference.