

# TECHNICAL DATA SHEET



## CP FLOORTEK SF Epoxy SL Topcoat (SUPERIOR EPOXY FLOOR PROTECTION)

(Four Component Solvent-free Epoxy Topcoat for Self-leveling floors)

### DESCRIPTION

**CP FLOORTEK SF Epoxy SL Topcoat** is a 100 % solid containing free flowing, four component solvent free epoxy system in pre-weighed packing for on-site mixing. This self-leveling floor topping system is based on pure liquid solvent free epoxy resin and modified cycloaliphatic amine curing agent. The finished floor provides a seamless hard-wearing, smooth, glossy, joint free, impervious chemical resistant and easy to clean surface. Each kit includes resin, hardener, color concentrate, and formulated aggregates.

### AREA OF APPLICATION

Ideal for floor toppings in industries such as:

- Food processing.
- Warehouses Engineering & Auto industries.
- Healthcare, Laboratories & Hospitals.
- Electronic Handling & Manufacturing unit.
- Computer assembly units.
- IT and other Commercial Buildings.
- Flammable material Storage areas.
- Breweries

The surfaces require appropriate preparation and priming of CP FLOORTEK Waterborne Epoxy Primer.

### KEY FEATURES

- Superior pigment dispersion for a flawless finish.
- Enhanced adhesion and self-leveling properties.
- Long-lasting resistance to chemicals and abrasion.
- Excellent resistance to distilled water, detergents, alkali, and mild acids.
- Excellent bond strength.
- Does not support growth of bacteria and fungus.
- Hygienic seamless floor which is easy to clean.
- Remarkable hardness and durability.
- Resistant to petroleum products, sea water and most solvents.

### TECHNICAL CHARACTERISTICS

- **Type:** SF Epoxy- modified cycloaliphatic amine.
- **Colours:** Customizable Shades
- **Mixing Ratio (Resin: Hardener: Color concentrate: Aggregates):** 4.03: 2.22: 0.29: 8.46 (by weight)
- **Finish:** Smooth
- **Appearance (Cured):** Glossy
- **Solids by volume:** 100%
- **Solids Content:** 100%
- **Pot life (RH 50%):** 40- 45 Minutes (+27°C)
- **Theoretical Coverage:** 1.5 Kg/ m<sup>2</sup>/1.0 mm.
- **Application:** By Steel trowel and Spiked nylon roller.
- **Clean-up:** Crown Two Pack Epoxy Thinner.
- **Shelf Life:** 12 months (in the original sealed container under proper storage condition)

# TECHNICAL DATA SHEET



**THICKNESS: CP FLOORTEK SF Epoxy SL Topcoat:** Max at 1.0 mm thickness.

**Recommended Wet Film Thickness (WFT): 1 mm**

**Recommended Dry Film Thickness (DFT): 1 mm**

Product	Mixing Ratio	Coverage
<b>1.Primer</b> CP FLOORTEK Waterborne Epoxy Primer	Component A-Resin: Component B- Hardener: Component C -MD Water  1: 2: 2 (by weight))	40-50 m <sup>2</sup> /5Kg. kit )
<b>2.Screed</b> CP FLOORTEK SF Epoxy Screed SL 1000/ 2000	1:1:4 (by weight)  (Resin: Hardener: Aggregates)	1.5 Kg/ m <sup>2</sup> /1.0 mm. (SL1000) 3.0 Kg/ m <sup>2</sup> /2.0 mm (SL2000)
<b>3.Overlay</b> CP FLOORTEK SF Epoxy SL Topcoat	4.03: 2.22: 8.46 :0.29(by weight)  (Resin: Hardener: Aggregates: Color concentrate)	1.5 Kg/ m <sup>2</sup> /1.0 mm

## DIRECTIONS FOR USE

The concrete must be with a tensile strength of  $\geq 1.5$  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 and 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. Ensure residual moisture does not exceed 4–5%.
- Relative air humidity (RH): <70%
- Prepare the surface through scarification, grinding, or shot blasting to achieve a profile of 150–200 microns.

**PRIMING:** The surfaces require appropriate preparation prior to the application of CP FLOORTEK Waterborne Epoxy Primer. The primer should be mixed in the given proportions supplied.

# TECHNICAL DATA SHEET

**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.

## MIXING

The **CP FLOORTEK SF Epoxy SL Topcoat** is supplied in three pre-weighed packs of components-(Resin, Hardener, Colour concentrate and Aggregate) must be mixed for 2 to 3 minutes using a low-speed electric stirrer (300-400 rpm) with a spiral shaped stirrer in a suitably sized mixing vessel. The colour concentrate should be added to the resin and should be stirred for 30 seconds till proper dispersion of colour concentrate in resin. The hardener is then added to the resin and mixed for about 1 to 2 minutes slowly until an even colour is obtained. Add the aggregate slowly into the mixing container, ensure stirring while pouring. Mix for another 2-3 mins till the product are homogeneous. Mix till the material is completely homogeneous. It is not recommending part mixing.

## APPLICATION

The material once mixed should be used within its specified pot life. The material is poured on to the primed surface and spread evenly to the required thickness with a 2mm 'V' notched steel trowel. Care should be taken not to overwork the resin. After spreading, the wet epoxy should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and assist leveling and removing any tool marks. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Allow a minimum of 72 hours curing before traffic exposure. The ideal application temperature should be between 23 deg.C to 30 deg.C. It is recommended to do a field trial prior to large scale application.

## PACKAGING:

Available in pre-weighed kits - 4.03 Kgs: 2.22 Kgs: 0.29Kgs: 8.46 Kgs (Resin: Hardener: Color concentrate: Aggregates)

## STORAGE & SAFETY PRECAUTIONS

- Store in accordance with national regulations.
- 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 ingredients 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 a well-ventilated area and away from the open flames/sparks.
- Local regulations need to be followed for disposing of waste materials.
- Refer to the MSDS for detailed Health safety information.

## SPECIAL NOTES:

- In the event 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.

**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.