

TECHNICAL DATA SHEET



CP FLOORTEK- SF Epoxy Screed SL1000/2000 (SUPERIOR EPOXY FLOOR PROTECTION)

(Three Component Solvent Free Epoxy Screed for self levelling floors)

DESCRIPTION

CP FLOORTEK SF Epoxy Screed SL1000/2000 is a three component cyclo-aliphatic amine cured solvent free epoxy screed, based on solvent free liquid epoxy resin. It is supplied as a pre-weighed, multicomponent system ready for on-site mixing. This is specially designed as a superior abrasive and impact resistant screed for areas with extreme wear and tear and can be used as a mid-coat or finish coat on concrete substrates. Supplied each kit includes resin, hardener and formulated aggregates.

AREA OF APPLICATION

Ideal for wide range of floors exposed to extreme wear and tear.

- Steel plants.
- Plant rooms.
- Warehouses.
- Factories.
- Food and Beverage plants.
- Oil Refineries.

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

KEY FEATURES

- Enhanced adhesion and self-leveling properties.
- Remarkable hardness, durability and abrasion.
- Chemically resistant - good resistance to a wide range of chemicals.
- High flow characteristics combined with an attractive self-smoothing with matt-semi matt finish.
- Hygienic - provides a dense, impervious, seamless floor surface which is easily cleaned.
- Resistance to water staining.
- Fast application - minimizes downtime.
- Applied from 1 to 2 mm thickness options.

TECHNICAL CHARACTERISTICS

- **Type:** SF Epoxy- modified cyclo-aliphatic amine.
- **Colours:** Clear.
- **Mixing Ratio (Resin: Hardener: Aggregates):** 1:1:4 (by weight)
- **Finish:** Grainy.
- **Appearance (Cured):** Matt-semi matt.
- **Solids by volume:** 100%
- **Solids Content:** 100%
- **Pot life (RH 50%):** 40- 45 Minutes (+27°C)
- **Theoretical Coverage:** 1.5 Kg/ m²/1.0 mm. (SL1000) & 3.0 Kg/ m²/2.0 mm (SL2000)
- **Application:** By 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)

THICKNESS OPTIONS:

CP FLOORTEK SF Epoxy Screed SL1000:

- Recommended Wet Film Thickness (WFT): 1 mm.
- Recommended Dry Film Thickness (DFT): 1 mm.

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CP FLOORTEK SF Epoxy Screed SL2000:

- Recommended Wet Film Thickness (WFT): 2 mm.
- Recommended Dry Film Thickness (DFT): 2 mm.

CURING DETAILS:

- Surface Dry: 1–2 hours
- Tack-Free Dry: 8 hours
- Dry to recoat – Walkability: 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 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 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.

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.

CP FLOORTEK SF Epoxy Screed SL1000/2000 flooring is supplied in three pre-weighed packs (Resin, Hardener and Aggregates) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both



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performance and appearance of the finished floor. Mix resin and hardener component together in the mixing vessel at least for 30 - 60 seconds, using a low-speed electric stirrer (300-400 rpm) with a spiral shaped stirrer in a suitably sized mixing vessel. Thereafter, the contents of the graded aggregate pack should be slowly added and mixing carried out for a further 2 - 3 minutes until a completely homogenous material is obtained. Once mixed, the material must be used within its specified pot life.

APPLICATION

The mixed material should be poured onto the prepared and primed substrate as soon as mixing is complete. It should be spread to the required thickness using a serrated trowel; with care taken not to overwork the resin, spreading evenly and slowly. Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. 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. Further light rolling may be required to remove surface imperfections, or for subsequent release of trapped air, but should be prior to the setting of the product.

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- 4.0 Kgs Resin+4.0 Kgs Hardener+ 16.0 Kgs Aggregate (SL1000/SL2000).

(Resin: Hardener: 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.