FLOORSHIELD SL1 EPOXY FINISH Solvent-free Epoxy Self-levelling

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FLOORSHIELD SL1 EPOXY FINISH is a three-component solvent free 100% solid self-smoothing epoxy resin compound in high gloss seamless finish applied at 1mm thickness. It is to be used on prepared and primed concrete floor in medium to heavy duty industrial environment.

Product Features:

- Solvent free thus no solvent smell
- High gloss thus easy to clean contamination
- High impact and chemical resistance.
- Seamless and dust free
- Good light reflectant

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent free	Interior	Gloss	Floor Concrete	Part A: 7.3 kg Part B: 2.5 kg Part C: 10.2 kg

Composition

Pigment	: Organic and Inorganic Pigment
Binder	: Epoxy & amine
Thinner	: -

Technical Data

Solid Content	: 100%
Density	: 1.56 kg/L
Viscosity	: approximately 3000-4000 mPas
Shelf-life	: 12 months at 30℃ (tightly sealed and properly stored)
Mixing Ratio	: 7.3 : 2.5 : 10.2 (by weight)
Pot-life (30℃)	: 20 minutes
Application temperature	: 15-35℃
Consumption	: 1.60 kg/m^2/mm This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.
No of coats	: 1
Recoat Time	: 24 hours
Walk on Time	24 hours
Cleaning Solvent	: SA-65 Thinner
Adhesion Strength	: Concrete cohesive failure at >1.5N/mm^2 (ASTM D4541)
Abrasion Resistant	: < 80 mg / 1000 cycle (ASTM D4060)
Shore D Hardness	: > 75 ((ASTM D2240)
Compressive Strength	: > 85 MPa (ASTM C579)
Tensile Strength	: >35 N/mm^2 (ASTM D638)

Application Method

Surface Preparation	: **FLOORSHIELD SL1 EPOXY FINISH** can be applied directly onto the primed substrate if the substrate moisture does not exceed max. 4 % by weight (measured electrically using Tramex CME). The surface should have an adhesive pull strength of minimum 1.5N/mm^2 or compressive strength of minimum 25 N/mm^2. Also, all traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. Cracks and hollow spots must be properly repaired.

Application	: **FLOORSHIELD SL1 EPOXY FINISH** is supplied in proportionate quantities in 3-component containers. The entire contents of the Component A is mixed and poured into a clean mixing barrel. Then empty Component B into the mixing barrel and mix for 1 minute using a mechanical stirrer. Charge in Component C and mix further for 1 minute till homogeneous. Use a 300 - 500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer. Move the mixing blade in circles around the inside edge of the pail from bottom to top. The inclusion of air in the stirring process must be avoided. Pour the mix on the primed concrete and spread evenly by notched squeegee at **1.60kg/m²** for 1 mm thickness. Immediately pass the spike roller over the spread mix twice at right angles to release any entrapped bubbles.

Cleaning

Clean up equipment with thinner immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{Volume\ Solid\ \%\ x\ 10}{Dry\ Film\ Thickness}\right] = m^2/lit/coat$$

and does not consider LOSS FACTORS.
Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.
However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.
We reserve the right to alter the given without prior notice.