Technical Data Sheet

Top Floor SL 2000

Product Description

Top Floor 2000 SL is a two-component, 100% solids (solvent-free), self-leveling epoxy resin flooring system designed to provide a seamless, high-gloss, hard-wearing, and hygienic surface. Formulated with selected graded fillers and high-purity epoxy resins, it offers superior mechanical strength, chemical resistance, and aesthetic appeal for industrial and commercial concrete floors.

Product uses:

- Pharmaceutical, healthcare, and cleanroom facilities
- Food and beverage processing plants and commercial kitchens
- Electronics, automotive, and aerospace assembly areas
- Warehouses, logistics centers, and light-to-medium manufacturing plants
- Showrooms, retail spaces, and commercial garages

Properties

- **Seamless & Hygienic**: Non-porous, joint-free finish prevents bacterial growth and allows easy cleaning.
- **Solvent-Free (Zero VOC)**: Safe for indoor application in sensitive environments with minimal odor.
- **Superior Self-Leveling**: Excellent flow and air-release properties produce a smooth, mirror-like finish.
- **High Mechanical Strength**: Resistant to abrasion, impact, and heavy forklift/pedestrian traffic.
- **Chemical Resistance**: Protects substrates against oils, greases, fuels, dilute acids, alkalis, and cleaning agents.

TECHNICAL PROPERTIES

Appearance/Color	High Gloss / RAL Color Card
Density:	1.53 kg/liter (Mixed)
Volume solids %:	100 %
Theoretical spreading rate:	0.5 m²/ltr / 0.33 m²/kg (2mm DFT)
Consumption:	2 ltr/ m² (3.06 kg/m²)
Recommended DFT: (Dry Film thickness)	2-7 mm
Flash Point:	130°C. /266 °F.
VOC Content	< 10 g/L (EPA Method 24 / ISO 11890-1)
Compressive Strength:	> 65 N/mm² (MPa) (ASTM C579)
Flexural Strength:	> 30 N/mm² (MPa) (ASTM C580)
Tensile Strength:	> 18 N/mm² (MPa) (ASTM D638)
Bond / Pull-Off Adhesion Strength:	> 2.0 N/mm² (Concrete failure) (ASTM D4541)
Abrasion Resistance (Taber, CS17, 1000g/1000 cyc):	< 45 mg weight loss (ASTM D4060)
Shore D Hardness:	81 ASTM D2240
Impact Resistance:	> 10 Nm (No cracking) (ASTM D2794)
Slip Resistance (Dry / Wet):	R9 (Smooth) / R10–R11 (with anti-slip aggregate) (DIN 51130)

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Reaction to Fire:	Bfl-s1 (EN 13501-1)
Surface dry:	5 approx. hour(s) 23°C/73.4°F 50% R.H
Light foot traffic	14-18 hours (23°C and 50% R.H.)
Full dry:	24 hours (23°C and 50 % R.H.)
Full cure time:	7 days (23°C and 50 % R.H.)
Application temperature:	+8 °C/46.4° F and +35 °C/ 95°F
Min. cure temperature:	+10°C/50°F

Application Details

Mixing Ratio:	Component A: 4– Component B: 1 - Silica Sand C: 10 (By weight)
Pot Life:	1 hours (23°C and 50% R.H.)
Application method:	Metal Trowel
Thinner:	Do Not Thin The Product
Thinner Amount:	Do Not Thin the product

Sulphuric Acid30 %:	Excellent
Sodium Hydroxide 25%	Excellent
Engine Oil:	Excellent
Lactic Acid 25%:	Good
Ammonia Solution 25%:	Good
Citric Acid 25%:	Good
Petrol:	Excellent
Sugar Solution 40%:	Good
Hydrochloric Acid 30%:	Excellent

Surface Preparation:

- Surface must be dry, clean and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder adhesion.
- Surface must be firm and have enough strength. If in doubt, apply a test area before beginning.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable particles should be removed from the surface before application with brush and/or vacuum cleaner.
- Grinding by diamond disk should take over the place and all the dust must be removed by vacuum machine.
- All the cracks must be repaired by epoxy filler or epoxy mortar.
- A and B components should be thoroughly mixed for 2-3 minutes and then Component C is added gradually in order to achieve a homogeneous mix using a low speed electric stirrer or other suitable equipment until a homogeneous mixture has been achieved.

PRECEDING COAT:

➢Top Floor 600-SF
➢Top Floor TS 650-MT
➢Top Floor FB 700

Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

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