



VoltFloor SL

Self-Leveling Epoxy Conductive Coating

Product Description

A two-component, self-leveling, solvent-free epoxy conductive coating designed for use in ESD flooring systems. Applied over VoltBond SF primer, it provides a smooth, durable, and conductive surface that safely dissipates static charges to grounding points.

Product uses:

- Electronics manufacturing and assembly areas
- Cleanrooms and pharmaceutical facilities
- Automotive and aerospace workshops
- Warehouses and battery-charging zones
- Garages
- Laboratories

Properties

- Forms a seamless, smooth finish with minimal application marks.
- Maintains reliable electrical resistance for ESD control.
- Excellent mechanical strength and abrasion resistance.
- Withstands oils, fuels, mild acids, and cleaning agents.
- Any static-sensitive environment requiring conductive flooring

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Glossy / Black & Gray colors
<i>Density:</i>	~1.5 kg/liter (Mixed)
<i>Volume solids %:</i>	100 %
<i>Theoretical spreading rate:</i>	1 m ² /ltr / 0.65 m ² /kg (1mm DFT)
<i>Consumption:</i>	1-1.5 kg/ m ²
<i>Recommended DFT:</i> (Dry Film thickness)	1-1.5 mm
<i>Electrical Resistance:</i>	10 ⁴ – 10 ⁶ Ω (system dependent)
<i>Adhesion Strength:</i>	≥ 2.0 N/mm ² (concrete pull-off test)
<i>Abrasion Resistance:</i>	< 50 mg loss (Taber test, CS17, 1000 cycles)
<i>Surface dry:</i>	8-10 approx. hour(s) 23°C/73.4°F 50% R.H
<i>Light foot traffic</i>	14-18 hours (23°C and 50% R.H.)
<i>Full dry:</i>	24 hours (23°C and 50 % R.H.)
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)
<i>Application temperature:</i>	+8 °C/46.4° F and +35 °C/ 95°F
<i>Min. cure temperature:</i>	+10°C/50°F

Application Details

<i>Mixing Ratio:</i>	Component A: 5– Component B: 1 (By weight)
<i>Pot Life:</i>	25-35 min.
<i>Application method:</i>	Metal Trowel/ Squeeze
<i>Thinner:</i>	Do Not Thin The Product
<i>Thinner Amount:</i>	Do Not Thin the product



Surface Preparation:

Substrate must be structurally sound, clean, and dry. Remove dust, oil, grease, laitance, and loose particles by mechanical grinding or shot-blasting. Concrete moisture content should be < 4%; rising damp must be treated. Apply VoltBond SF primer to ensure conductivity and adhesion before VoltFloor SL.

Mixing

Use a slow-speed drill mixer (300–400 rpm) to achieve a homogeneous blend. Avoid air entrapment during mixing. Once mixed, the material has a pot life of 25–35 minutes at 25°C.

Application

Pour the mixed material onto the prepared surface. Spread evenly using a notched trowel or rake to the desired thickness (1.0–1.5 mm). Allow the product's self-leveling action to create a smooth finish. Use a spike roller immediately after spreading to release trapped air and ensure uniform conductivity. Maintain a wet edge to avoid visible joints.

PRECEDING COAT:

➤ VoltBond SF

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:

1 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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