



VoltFloor SL\PU

Solvent-Free Polyurethane Self-Leveling Antistatic Flooring System

Product Description

VoltFloor SL\PU is a two-component, solvent-free polyurethane self-leveling flooring system designed to provide a seamless, durable, and electrically conductive surface. The system offers excellent resistance to abrasion, impact, chemicals, and static charge accumulation, making it ideal for environments where electrostatic discharge (ESD) protection is required.

The cured coating forms a smooth, hygienic, and easy-to-clean finish while maintaining permanent antistatic properties throughout its service life.

Product uses:

- Electronic manufacturing facilities
- Semiconductor plants
- Pharmaceutical production areas
- Data centers and server rooms
- Clean rooms
- Laboratories
- Control rooms
- Battery manufacturing facilities
- Automotive assembly plants
- Warehouses requiring ESD protection

Properties

- Solvent-free and environmentally friendly
- Self-leveling smooth finish
- Permanent antistatic properties
- Excellent abrasion resistance
- High chemical resistance
- Seamless and hygienic surface
- Low VOC emissions
- Easy cleaning and maintenance
- Good impact and mechanical resistance
- Suitable for medium to heavy-duty industrial floors

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	High Glass / RAL Color Card
<i>Product Type:</i>	Polyurethane Self-Leveling Coating
<i>ESD Compliance:</i>	IEC 61340 Compatible
<i>Density:</i>	1.45 ± 0.05 kg/L
<i>Volume solids %:</i>	100 %
<i>Theoretical spreading rate:</i>	0.5 m ² /ltr / 0.38 m ² /kg (2000 micron DFT)
<i>Recommended DFT:</i> <i>(Dry Film thickness)</i>	1.5 - 3 mm per coat
<i>VOC Content:</i>	< 50 g/L
<i>Flash Point:</i>	22° C. / 71.6 °F

Technical Data Sheet



<i>Compressive Strength:</i>	≥ 50 MPa
<i>Tensile Strength:</i>	≥ 12 MPa
<i>Bond Strength to Concrete:</i>	> 2.5 MPa (Concrete Failure)
<i>Shore D Hardness:</i>	70 – 80
<i>Abrasion Resistance:</i>	Excellent
<i>Surface Resistivity:</i>	10 ⁶ – 10 ⁹ Ω
<i>Service temperature:</i>	-10°C to +60°C
<i>Water Absorption:</i>	< 0.5%
<i>Surface dry:</i>	1 - 2 approx. hour(s) 23°C/73.4°F 50% R.H
<i>Walk-On Time:</i>	24 hours
<i>Full dry:</i>	48 hours (23°C and 50 % R.H.)
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)
<i>Application temperature:</i>	+10°C to +35°C
<i>Relative Humidity:</i>	Max. 80%
<i>Min. cure temperature:</i>	+10°C/50°F

Application Details

<i>Mixing Ratio:</i>	Component 4 – Component B: 1 (By weight)
<i>Pot Life @ 25°C:</i>	20-30 minutes
<i>Application method:</i>	Metal Trowel
<i>Thinner:</i>	Do Not Thin

Surface Preparation:

Concrete substrates must be:

- Sound and structurally stable
- Minimum compressive strength 25 MPa
- Pull-off strength minimum 1.5 MPa
- Clean, dry, and free from contaminants
- Mechanically prepared by shot blasting or diamond grinding

PRECEDING COAT:

➤ **VoltBond SF**

APPLICATION METHOD

- 1- Prepare and prime the substrate.
- 2- Install conductive copper tape network according to design requirements.
- 3- Mix Component A and Component B thoroughly.
- 4- Pour material immediately onto the floor.
- 5- Spread using notched trowel or gauge rake.
- 6- Finish with a spiked roller to remove entrapped air.
- 7- Allow curing according to specified times.

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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