

Weberfloor EP 520 SLAS

Self-smoothing ESD epoxy topping



Weberfloor EP 520 SLAS is a self-smoothing, ESD (anti-static), epoxy resin floor finish (1-2mm) with high mechanical and conductive properties. It is seamless with a glossy finish and available in a wide range of colours.

PRODUCT BENEFITS



SELF SMOOTHING



ANTI STATIC



ABRASION RESISTANT

USES

Weberfloor EP 520 SLAS is for high-tech manufacturing which requires conductive flooring, and in GMP, hygienic applications subjected to moderate traffic, impact, and surface requirements without the risk of static buildup. Used for military arsenals, high power station, explosion risk plant, clean room, warehouse, automotive plant, electronic plant and labs.

ADVANTAGES

- Solvent free, low odour and V.O.C
- Hygienic
- Excellent chemical resistance
- Excellent abrasion resistance

TECHNICAL DATA & PHYSICAL PROPERTIES

Pot life (Working Time)
Curing Time

30 mins

	15°C	25°C	32°C
Foot Traffic	30 hours	28 hours	24 hours
Light Traffic	48 hours	36 hours	30 hours
Full chemicals cure	10 days	7 days	7 days

Density (28°C)	1.40±0.05 g/ml
Tensile Strength	25 N/mm ²
Flexural Strength	35 N/mm ²
Compressive Strength	55 N/mm ² (28 days)
Adhesive Strength	> 2.0 N/mm ² (Concrete failure)
Shore D Hardness	75~82
Temperature Resistance	up to 70°C
Water Permeability (Karsten Test)	Nil, impermeable
Cytotoxicity	below < 0.5
Taber Abraser	5mg
Decay Time through Human Body	Spec: < 20 s
Body Voltage (HBM) (ANSI/ESD S20.20-2007)	< 100 volts
System Resistance (ANSI/ESD S20.20-2007)	< 3.5 E + 10 ⁷ ohm

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TECHNICAL DATA & PHYSICAL PROPERTIES

ESD Floor Main Checking Criteria & Specification:

CONDUCTIVE (with Weberprim WBAS) - BS 2050

Surface to Ground (Earth) Rg Spec	1E+4 Ω ~ 9E+6 Ω (1 x 10 ⁴ ohm to 9 x 10 ⁶ ohm)
Surface to Surface (Earth) Rs Spec	1E+4 Ω ~ 9E+6 Ω (1 x 10 ⁴ ohm to 9 x 10 ⁶ ohm)

DISSIPATIVE (without Weberprim WBAS) - BS 2050

Surface to Ground (Earth) Rg Spec	1E+6 Ω ~ 9E+9 Ω (1 x 10 ⁶ ohm to 9 x 10 ⁹ ohm)
Surface to Surface (Earth) Rs Spec	1E+6 Ω ~ 9E+9 Ω (1 x 10 ⁶ ohm to 9 x 10 ⁹ ohm)

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

PROCEDURE & APPLICATION



Surface Preparation

All surfaces must be clean, sound, and free from any laitance, oil, grease, and any contaminants. Substrate must be free from groundwater pressure with compressive strength of >25 N/mm² and bond strength of >1.5 N/mm². If the moisture content >4%, apply an epoxy mortar (60 MPa) at 4-5 mm or Weberfloor CEM MB at 2-3 mm as a moisture barrier. The surface must be vacuum shot-blast or mechanical grind. Cracks and hollows should be properly remedied. Prepare grooves 3mm wide x 3mm deep at all edges, bay joints columns, doorways and drains for anchoring purposes.



Mixing

Stir Part A for 30 seconds by using a suitable electrical stirrer (750 watt). Add Part B and mix both parts thoroughly for 2 minutes until it achieves a homogeneous mixture.



Application

Apply Weberprim WBAS @ 0.12 kg/m² as a conductive carbon layer. After Weberprim WBAS is cured (8-14 hours), then layer Weberfloor EP 520 SLAS on top. Spread with a notched squeegee or pin rake, and set it to the required thickness. Immediately release air bubbles by using a spike roller.



Care & Maintenance

Regular cleaning and maintenance will prolong the life of Weberfloor EP 520 SLAS. Regular cleaning using a single or double-headed rotary scrubber with an alkaline detergent is recommended.

CONSUMPTION

Approx. 2.1 kg/m² per 1.5 mm coat application.

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STORAGE & PACKING

Weberfloor EP 520 SLAS is available in 21 kg (Part A - 18 kg pail + Part B - 3 kg pail) sets. Shelf life as stated if unopened, and kept in dry and cool conditions.

PRECAUTION

Do not apply when the relative humidity exceeds 90% or when the surface temperature to be coated is <5% above the dew point. Do not apply when temperatures are <5 °C and >40 °C.

HEALTH & SAFETY

Good ventilation is required, if not, a portable exhaust fan shall be used. Wear protective clothing, gloves, and goggles during mixing and application process. Handle with care and in the event of eyes and skin contact, wash with plenty of water, and seek medical attention if irritation persists. Please keep out of reach of children.

*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Jan '23)

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