

Weberfloor EP 512WB AS

Non out-gassing, water-based, epoxy conductive ESD coating

Weberfloor EP 512WB AS is a solvent-free, coloured, water-dispersed, ready-to-use, two-component, conductive (ESD) epoxy coating. It is for high-tech manufacturing floors that require conductive (ESD) properties.



PRODUCT BENEFITS



SOLVENT FREE



PRIMER



CONDUCTIVE

USES

Weberfloor EP 512WB AS can be used in GMP, hygienic areas subjected to medium traffic and impact without the risk of static buildup. Suitable for use in military arsenals, ammunition dumps, electronic and semi-conductor, high power stations, and explosion-risk plants. It is also for clean rooms, warehouses, automotive assembly plants, electronic plants, and R&D laboratories.

ADVANTAGES

- Seamless, monolithic application
- Solvent-free, low odour, low VOC
- High chemical resistance
- Eliminates electrostatic discharge
- Excellent abrasion resistance
- Tolerant with moisture

TECHNICAL DATA & PHYSICAL PROPERTIES

Finishing	Satin
Density @ 28°C	1.40 ±0.05 g/ml
Viscosity @ 28°C	4000±500 cps
Solid Content	±78 %
Thickness (DFT)	200±50 μ
Number of Coats	2
Abrasion Resistance	Loss 5 mg
(Wear cycles 1000 revolutions)	
Bond Strength	>1.5 MPa (Concrete failure)
Water Vapour Transmission	0.79± g/h.m ²
(ASTM E96/E96M-10)	
Taber Abraser	31 mg
(ASTM D 4060 -10)	
Pot Life @ 28°C	30 min
Recoating Time @ 28°C	14 to 24 hours
Dissolved Oxygen Difference	<2.39 mg/L
(BS 6920: Part 1:2000)	
Complied ESD Standard	ANSI/ESD S-20.20-2007 BS-2050

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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 dry, clean, sound, and free from any laitance, oil, grease, and any contaminants. Substrate must have a minimum compressive strength of 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm² (concrete failure). Prepare substrate using a diamond grinding equipment to remove cement laitance and achieve an open textured surface. Crack and hollows should be properly remedied. Rough contaminations and high spots can be removed by grinding.



Mixing

Stir Part A mix for 30seconds by using a suitable electrical stirrer (750-watt high power mixer), then add Part B and mix thoroughly for one minute until a homogeneous mixture is achieved. Slowly add clean water (First coat can add up to 10% water, topcoat can add 7% of water.) while mixing continues for 1.5 minutes until a homogenous mix has been achieved.



Application

Apply Weberprim WBAS @ 0.12kg/m² to seal substrate porosity. After 8 - 14 hours, add a layer of Weberfloor EP 512WB AS. Weberfloor EP 512WB AS should be applied within the pot life of 30 minutes.



Care & Maintenance

Regular cleaning and maintenance will prolong the life of Weberfloor EP 512WB AS. Regular cleaning using a single or double-headed rotary scrubber with an alkaline detergent is recommended.

CONSUMPTION

~ 0.18 kg/m². Estimated coverage at 150μ/coat is 6m²/kg.

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PRECAUTION

Do not apply when substrate's temperature is $<10^{\circ}\text{C}$ and $>40^{\circ}\text{C}$.

CLEANING

Clean the tools and equipment immediately after use with water.

STORAGE & PACKING

Weberfloor EP 512WB AS is available in 5 kg sets (Part A - 4 kg pail + Part B - 1 kg pail) & 20 kg sets (Part A - 16 kg pail + Part B - 4 kg pail).

Shelf life of 12 months if unopened, kept in dry conditions and at temperatures of 5°C to 30°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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