FLOORING

Weberfloor PUC MFAS

(formerly Weberfloor PUR MFAS)

Self-smoothing, ESD polyurethane screed (3–4 mm)

Weberfloor PUC MFAS is a self-smoothing, thermal shock, ESD (anti-static), polyurethane floor coating. Weberfloor PUC MFAS is matte, seamless, conductive, with heat and slip resistance.

PRODUCT BENEFITS

- CONDUCTIVE
- POLYURETHANE BASED
- SELF SMOOTHING

USES

Weberfloor PUC MFAS 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

- Eliminate electrostatic discharge
- High mechanical and impact resistance
- Excellent abrasion and chemical resistance
- Resist fungi, mildew and bacteria growth

TECHNICAL DATA & PHYSICAL PROPERTIES

Pot life (working time)
24 mins (15°C); 20 mins (25°C); 18 mins (30°C)

Recoating time(28°C)
within 14 to 18 hours

Curing Time

	15°C	25°C	32°C
Foot Traffic	36 hours	30 hours	24 hours
Light Traffic	48 hours	36 hours	30 hours
Full chemicals cure	7 days	6 days	5 days

Density (28°C)	1.8 g/ml
Tensile Strength	25 MPa
Flexural Strength	21 N/mm²
Compressive Strength	50 N/mm²
Static Modulus of Elasticity	9400 – 9800 N/mm²
Adhesive Strength	> 2.0 MPa (Concrete failure)
Service Temperature	5 to 80 °C (3mm), -5 to 100 °C (5mm)
Shore D Hardness	79 ~ 84
Cytotoxicity	below < 0.5
Taber Abraser (ASTM D 4060-10)	38 mg
Growth of Aquatic Microorganisms (BS 6920: Part 1: 2000 Clause 6)	<2.39 or less
Water Vapour Transmission (ASTM E96/E96M-10)	± 1.23 g/hr.m²
Body Voltage (HBM) (ANSI/ESD S20.20-2007)	< 100 volts

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TECHNICAL DATA & PHYSICAL PROPERTIES

System Resistance (ANSI/ESD S20.20-2007)	< 3.5 E + 10^7 ohm

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. The concrete substrate must be dry and free from groundwater pressure with a compressive strength of ≥ 25 N/mm² and bond strength of ≥ 1.5 N/mm². If the moisture content > 4%, apply epoxy mortar (>80 MPa) at 4-5 mm as a moisture barrier. The concrete surface must be vacuum shot-blast or mechanical grind. Cracks and hollows should be properly remedied. Prepare grooves 3 mm wide x 3 mm deep at all edges, bay joints columns, doorways and drains for anchoring purposes.

Mixing

	Part A	Part B	Conductive Filler	Plain Filler	Colour Paste
Weight	3 kg	3 kg	0.2 kg	9.6 kg	0.2 kg
Shelf Life	9 months	9 months	18 months	9 months	18 months

	Part A	Part B	Conductive Filler	Plain Filler	Colour Paste
Weight	3 kg	3 kg	0.2 kg	9.3 kg	0.2 kg
Shelf Life	9 months	9 months	18 months	9 months	18 months

Shake Part A and Part B before adding it to a clean mixing barrel. Pour all of Part A into the mixing barrel and immediately add Conductive Filler and mix for 10 – 15 seconds using a suitable electrical mixer (750 watt high power). Then, add Part B and mix for 5 seconds. Then, add Plain Filler, mix for approximately 5 seconds followed by adding Colour Paste and mix for at least 40–50 seconds until the mixture becomes homogeneous.

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Application

Apply Weberprim WBAS (+/- 100 µ) as a conductive carbon layer. After Weberprim WBAS is cured (within 14~24 hours), then layer Weberfloor PUC MFAS on top of Weberprim WBAS. Apply Weberfloor PUC MFAS within the pot life, spread the composite matrix with a notched squeegee or pin rake, and set it to the correct depth or required thickness. Immediately release the air or bubble by using a spike roller.

Care & Maintenance

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

CONSUMPTION

Approx. 1.8 kg/m² per 1 mm coat application. Application can be up to 3–4 mm.

COLOURS

- Standard – Grey, Light Grey, Cream, Buff, Red, Traffic Grey
- Premium - Brilliant Blue, Orange Brown, Sky Blue, Green

Colour may change on exposure to UV.

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.

STORAGE & PACKING

Weberfloor PUC MFAS is available in 16 kg sets. Please refer to tables for the breakdown. Shelf life as stated if unopened, and kept in dry and cool conditions.

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.

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