

Weberfloor PUC MF

(formerly Weberfloor PUR MF)

Self-smoothing polyurethane screed (3 – 6 mm)

Weberfloor PUC MF is a self-smoothing, seamless, polyurethane industrial floor topping. It offers high mechanical, excellent chemical, and thermal shock resistance properties.



PRODUCT BENEFITS



SOLVENT FREE



POLYURETHANE BASED



SELF SMOOTHING

USES

Weberfloor PUC MF is used in abattoir, meat, poultry, food/seafood processing plants, food & beverage facilities, cold storage, commercial kitchens, warehouse centres, and industrial plants.

ADVANTAGES

- Tough and durable
- Excellent chemical resistance
- Anti-bacterial
- Solvent free, odourless, non-tainting to food

TECHNICAL DATA & PHYSICAL PROPERTIES

Pot life (working time)
Recoating time(28°C)
Curing Time

20 mins (22°C); 16 mins (28°C)
within 14 to 18 hours

	22°C	30°C
Foot Traffic	24 hours	18 hours
Light Traffic	48 hours	24 hours
Full chemicals cure	7 days	6 days

Density (28°C)

1.9 g/ml

Tensile Strength

25 MPa

Flexural Strength

26.5 N/mm²

(ASTM C348)

Compressive Strength

57.7 N/mm² (28 days)

(BS 6319: Part 2: 1983)

51.5 N/mm² (14 days)

Static Modulus of Elasticity

9400-9800 N/mm²

Adhesive Strength

> 2.0 MPa (Concrete failure)

(ASTM C1583)

Service Temperature

-15 to 60 °C (3mm), -25 to 80 °C (6mm)

Shore D Hardness

79~84

Cytotoxicity

below < 0.5

Taber Abraser

38 mg

(ASTM D 4060-10)

Growth of Aquatic Microorganisms

<2.39 or less

(BS 6920: Part 1: 2000 Clause 6)

Water Vapour Transmission

± 1.23 g/hr.m²

(ASTM E96/E96M-10)

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Linear Shrinkage (ASTM C531-00 [2012])	0.053 %
Surface Resistance (ANSI/ESD STM11.11)	2.71E+11
Thermal Expansion (ASTM C531:2000)	5.07 x 10 ⁻⁵ (per °C)
Water Absorption (ASTM C413:2001)	0 % (Aged at 49 days)
Anti Microbial (JIS Z 2801: 2012)	Log reduction >2 (Passed)
E. Coli (ATCC 8739)	4.72
S. Aureus (ATCC 6538P)	4.47

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. Minimum compressive strength of 25 MPa and bond strength of 1.5 MPa. The concrete substrate must be waterproofed against negative groundwater pressure. If the moisture content of the concrete substrate > 4%, apply an epoxy mortar of high compressive strength (>80 MPa) at 4-5 mm thickness as a moisture barrier, allow to cure overnight before the application of Weberfloor PUC MF. The concrete surface must be shot-blast or mechanical grind. Repair damaged areas and patch up cracks and holes using a patching compound. Cut 3 mm x 3 mm grooves around the perimeter of the floor and at endpoints (e.g. plinth, column, drains, etc.)



Application – Scratch coat

A scratch coat of Weberfloor PUC MF at 1 mm thickness may be applied as a leveling layer to improve the sub-floor surface if necessary or for situations subjected to extreme service temperatures. Pour the mixture onto the surface and spread with the straight edge trowel press hard against the surface. Allow 14-18 hours curing before applying Weberfloor PUC MF.



Mixing (3 components)

	Part A	Part B	Part C Colour Filler
Weight	3 kg	3 kg	14 kg
Shelf Life	9 months	12 months	12 months

Shake Part A well before adding it into a clean mixing container with Part B. Start mixing with a helical mixer at low speed (500 rpm) for approximately 5 seconds. Then add Part C. Gradually increase the mixing speed to approximately 750 rpm and mix for at least 55 seconds or until the mixture becomes homogeneous, move the mixer from top to bottom and side to side ensuring all filler is properly dispersed.

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	Part A	Part B	Part C Colour Filler	Part D Plain Filler
Weight	3 kg	3 kg	0.5 kg	13.5 kg
Shelf Life	9 months	12 months	18 months	12 months

Shake Part A well before adding it into a clean mixing container with Part B. Start mixing with a helical mixer at low speed (500 rpm) for approximately 5 seconds. Then, add Part C and mix for 10 seconds. Next, add Part D, gradually increase the mixing speed to approximately 750 rpm and mix for at least 40 seconds, move the mixer from top to bottom and side to side ensuring all filler is properly dispersed.



	Part A	Part B	Part C Colour Paste	Part D MF Filler
Weight	3 kg	3 kg	0.2 kg	13.8 kg
Shelf Life	9 months	12 months	18 months	12 months

Shake Part A well before adding it into a clean mixing container with Part B. Start mixing with a helical mixer at low speed (500 rpm) for approximately 5 seconds. Add Part D and mix at low speed for approximately 10 seconds. Next, add Part C and mix for at least 55 seconds or until fully homogeneous. Gradually increase the mixing speed to approximately 750 rpm, move the mixer from top to bottom and side to side ensuring all filler is properly dispersed.



Application

Pour the mixture onto the treated surface and spread it with a notched trowel or pin rake set to the required thickness, spike roll immediately to release the entrapped air from mixing. The application site must be well ventilated, otherwise it is advisable to use a portable exhaust fan.



Care & Maintenance

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

ACCELERATOR GUIDE

Temperature (°C)	Percentage	Working Time
< 0 °C	3 %	8~9 minutes
1 °C < 8 °C	2 %	9~10 minutes
9 °C < 15 °C	1 %	9~10 minutes
16 °C < 20 °C	0.5 %	9~10 minutes

CONSUMPTION

Approx. 10.5 m² per 1 mm coat application for 20 kg set.

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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 MF is available in 20 kg sets. Please refer to the tables for the breakdown. Shelf life as stated if unopened, and kept in dry and cool conditions.
















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.*

HEALTH & SAFETY

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.

CHEMICAL RESISTANCE

Chemical	Concentration	Temperature	Resistance
Acetic Acid	10 %	28 °C	 Excellent
Beer	-	28 °C	 Excellent
Blood	-	28 °C	 Excellent
Citric Acid	20 %	28 °C	 Excellent
Detergents - Acidic	All	28 °C	 Excellent
Detergents - Alkaline	All	28 °C	 Excellent
Fats-Animals and Vegetable	-	28 °C	 Excellent
Fish Oils	-	28 °C	 Excellent
Lactic Acid	5 %	28 °C	 Excellent
Oil - Diesel	-	28 °C	 Excellent
Oil - Fuel	-	28 °C	 Excellent
Oil - Mineral	-	28 °C	 Excellent
Sugar	100 %	28 °C	 Excellent
Sodium Hydroxide	50 %	28 °C	 Excellent
Sodium Sulphate	All	28 °C	 Excellent

*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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