

Weberfloor PUC SL

(formerly Weberfloor PUR SL)

Self-smoothing polyurethane screed (2 mm)

Weberfloor PUC SL is a self-smoothing, seamless, polyurethane floor topping. It provides high chemical and abrasion resistance with a matt finish.



PRODUCT BENEFITS



SOLVENT FREE



POLYURETHANE BASED



SELF SMOOTHING

USES

Weberfloor PUC SL is used for new and existing floors in industrial and warehousing environments where mechanical abuse is expected.

ADVANTAGES

- Solvent-free, odourless
- High mechanical and impact resistance
- Excellent chemical resistance
- Excellent abrasion resistance

TECHNICAL DATA & PHYSICAL PROPERTIES

Pot life (working time)

15°C	25°C	30°C
30 mins	25 mins	22 mins

Recoating time (28°C)
Curing Time

Within 14 to 18 hours

	15°C	22°C	30°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) 1.9 g/ml

Tensile Strength 25 MPa

Flexural Strength 21 MPa

Compressive Strength @ 28 days 50 N/mm²

Adhesive Strength > 2.0 MPa (Concrete failure)

Service Temperature 5°C to 80°C (2mm)

Shore D Hardness 79~84

Cytotoxicity Below < 0.5

Taber Abraser 38mg

(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)

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.

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PROCEDURE & APPLICATION



Surface Preparation

All surfaces must be clean, sound, and free from any laitance, oil, grease, and any contaminants. It must have a minimum compressive strength of 25 MPa and bond strength of 1.5 MPa. The substrate must be dry and waterproofed against groundwater pressure. If the moisture content of the substrate > 4%, apply Weberfloor EP 550 MS at 4–5 mm thickness as a moisture barrier, allow to cure overnight. The surface must be shot-blast or mechanical grind. Repair damaged areas and patch up cracks and holes using a patching compound. Prepare grooves 3 mm wide x 3 mm deep at all edges, bay joints columns, doorways, and drains for anchoring purposes.



Mixing (3 components)

	Part A	Part B	Part C Colour Filler
Weight	3 kg	3 kg	11 kg
Shelf Life	9 months	9 months	9 months

Shake Part A well before adding it into a clean mixing container with Part B. Start mixing with an electrical stirrer (750 watt high power) for approximately 5 seconds. Then add Part C, mix for at least 1 minute until the mixture becomes homogeneous.



Mixing (4 components)

	Part A	Part B	Part C Plain Filler	Part D Colour Paste
Weight	3 kg	3 kg	10.8 kg	0.2 kg
Shelf Life	9 months	9 months	18 months	9 months

Shake Part A well before adding it into a clean mixing container with Part B. Start mixing with an electrical stirrer (750 watt high power) for approximately 5 seconds. Then add Part C, mix for at least 5 seconds, followed by Part D and mix for at least 40 seconds until the mixture becomes homogeneous.



Application

Apply Weberprim EP 511 WB as a primer to seal the substrate. Within 14 to 18 hours when the primer is cured, apply Weberfloor PUC SL as scratch coat (± 0.5 mm thick), then layer Weberfloor PUC SL (± 1.5 mm thick) on top of the scratch coat. Spread the composite matrix with a notched squeegee or pin rake and set it to the correct depth of requirement thickness, immediately use a spike roller to release the air bubbles.



Care & Maintenance

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

CONSUMPTION

Approx. 1.9 kg/m² per 1mm coat application.

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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 SL is available in 17 kg sets. Please refer to tables for the breakdown. Shelf life as stated if unopened, and kept in dry and cool conditions.
















COLOURS

- Green, Red, Grey, Cream, Buff, Light Grey (Colour may change on exposure to UV.)

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.

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. (Feb'25)



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