

Weberfloor PUC HD

(formerly Weberfloor PUR HD)

Slip resistance, heavy duty polyurethane mortar

Weberfloor PUC HD is a thermal shock resistant polyurethane mortar screed applied in a thickness of 4 - 12mm. A matte finish with seamless, high-mechanical, anti-slip, heat, and cool resistance.



PRODUCT BENEFITS



SOLVENT FREE



ANTI SLIP



CHEMICAL RESISTANT

USES

Weberfloor PUC HD is suitable for areas that required HACCP based floors such as meat, fish and poultry processing, food & beverages production, commercial and industrial kitchens, pharmaceutical production, chemical plants and industrial plants that requires slip resistance.

ADVANTAGES

- Hygienic & odourless
- Excellent abrasion resistance
- Excellent chemical resistance
- Excellent impact resistance
- Resist fungi, mildew and bacteria growth
- Non-cytotoxic response after cure

TECHNICAL DATA & PHYSICAL PROPERTIES

Pot Life	15°C	25°C	30°C	
	30 mins	25 mins	22 mins	
Recoating Time (28°C)	Within 14 - 18 hours			
Curing Time	15°C	25°C	30°C	
	Foot Traffic	36 hours	30 hours	24 hours
	Light Traffic	48 hours	36 hours	30 hours
	Full Chemical Cure	7 days	6 days	5 days
Density (28°C)	2.1 g/ml			
Flexural Strength (ASTM C348)	26.5 N/mm ²			
Compressive Strength (BS 6319: Part 2: 1983)	54.1 N/mm ² (28 days)			
Adhesive Strength (ASTM C1583)	51 N/mm ² (14 days)			
Service Temperature	> 2.0 MPa (Concrete failure)			
Shore D Hardness	-25°C to 80°C (6mm), -40°C to 120°C (9mm), -45°C to 150°C (12mm)			
Cytotoxicity	80-85			
Taber Abraser (ASTM D 4060-10)	below < 0.5			
	83.0 mg			

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Growth of Aquatic Microorganisms (BS 6920: Part 1: 2000 Clause 6)	2.39 or less
Surface Resistance (ANSI/ESD STM11.11)	3.67E+11
Thermal Expansion (ASTM C531:2000)	3.34 x 10 ⁻⁵ (per °C)
Water Absorption (ASTM C413:2001)	0% (Aged at 49 days)
Thermal Shock (BS 476: Part 6: 1989+A1: 2009)	7.8 - Fire Propagation Index (I)
Anti Microbial (JIS Z 2801:2012)	Log reduction >2 (Passed) R
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 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. It should be dry and free from groundwater pressure. If substrate moisture >4%, apply Weberfloor PUC HD at a minimum thickness of 8mm. Prepare substrate by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 5 mm wide x 5 mm deep at all edges, bay joints columns, doorways, and drains for anchoring purposes.

Primer



For porous substrates, apply epoxy primer. After 14 - 18 hours, apply Weberfloor PUC MF as a scratch coat (±1 mm thick).

Mixing (5 components)



	Part A	Part B	Part C Filler	Part D Colour Paste	Part E Filler HD
Weight	3 kg	3 kg	13.8 kg	0.2 kg	12 kg
Weight	3 kg	3 kg	13.8 kg	0.2 kg	10 kg
Shelf Life	9 months	9 months	12 months	24 months	18 months

Shake Part A well before mixing with Part B. Mix using a helical mixer at low speed (500 rpm) for ~5 seconds. Then, add Plain Filler C-13.8 and mix for ~10 seconds until homogeneous. Gradually increase the mixing speed to ~750 rpm then add Filler HD and mix for at least 65 seconds. Move the mixer from top to bottom and side to side to ensure all fillers are dispersed and homogenous.

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Application

After 14 - 18 hours, apply Weberfloor PUC HD. Pour the mixture onto the surface and spread it with a notched trowel or pin rake to the nominated thickness and spike roll immediately to release the entrapped air. Use a short nap roller to roll evenly on the surface to get finishing evenly. The application must be carried out within the pot life.



Care & Maintenance

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

CONSUMPTION

Approx. 2kg/m² per 1mm coat.

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 HD is available in 32 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
















Good ventilation is required, if not, a portable exhaust fan shall be used. Wear protective clothing, gloves, and goggles. Handle with care and in the event of eyes and skin contact, wash with plenty of water, and seek medication attention if irritation persists.

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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 '26)

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