

Weberfloor EP 523 SL

Self-smoothing epoxy topping



Weberfloor EP 523 SL is a two-component, self-smoothing epoxy resin floor with a glossy finish (2-3 mm) in a wide range of attractive colours. It makes industrial floors dust free with excellent chemical and abrasion resistance.

PRODUCT BENEFITS



SOLVENT FREE



SELF SMOOTHING



SEAMLESS

USES

Weberfloor EP 523 SL is for dry process areas where the floor is subjected to trolley, pallet truck, and fork life traffic. Areas of application include laboratories, electronic and clean rooms, automotive assembly, aircraft hangars, pharmaceutical, printing pulp paper, mills, refineries, and other industrial plants sectors where chemical resistance is required.

ADVANTAGES

- Solvent-free system, low odour
- Hygienic, easy to clean
- Excellent chemical resistance
- Excellent abrasion resistance

TECHNICAL DATA & PHYSICAL PROPERTIES

Finishing
Pot Life
Curing Time

Gloss
30 mins

	15°C	25°C	32°C
Foot Traffic	24 hours	20 hours	18 hours
Light Traffic	36 hours	30 hours	24 hours
Full chemicals cure	10 days	7 days	7 days

Density@ 28°C
Adhesive Strength
Tensile Strength
Compressive Strength @ 28 days
Flexural Strength
Shore D Hardness
Temperature Resistance
Water Permeability
(Karsten Test)
Cytotoxicity
Taber Abraser
(ASTM D 4060-10)
Dissolved Oxygen Difference
(BS 6920: Part 1: 2000)

1.60 ± 0.05 g/ml
> 2.0 N/mm² (Concrete failure)
25 N/mm²
55 N/mm²
35 N/mm²
75 ~ 82
up to 70 °C
Nil (Impermeable)
< 0.5
37 mg
< 2.39 or less

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.

SAINT-GOBAIN (SINGAPORE) PTE LTD

2 Venture Drive, #13-18,
Vision Exchange, Singapore 608526

(65) 63308288 (65) 63308289

eis.info@saint-gobain.com www.saint-gobain.sg

SAINT-GOBAIN WEBER (M) SDN BHD

No 29 & 31, Jalan TIAJ 2/1, Taman Industri Alam Jaya,
42300 Bandar Puncak Alam, Selangor D E, Malaysia

(603) 60389498/97/89 (603) 6038 9507

info.webermalaysia@saint-gobain.com www.mys.weber

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PROCEDURE & APPLICATION



Surface Preparation

All surfaces must be dry, clean, sound, and free from any laitance, oil, grease, and any contaminants. Surface should be free from groundwater pressure with a minimum compressive strength of 25 MPa and bond strength of 1.5 MPa. If the moisture content of the concrete substrate is >4%, apply an epoxy mortar of high compressive strength (>60 MPa) at 4-5 mm or Weberfloor CEM MB at 2-3mm as a moisture barrier. The surface must be vacuum shot-blasted and rough contaminations removed by grinding. Cracks and hollows must be properly remedied. Prepare grooves 3mm wide x 3mm deep at all edges, bay joints columns, doorways and drains for anchoring purposes.

Primer

Prime the surface using Weberprim EP 500 PR and allow it to cure within 8 - 14 hours.



Application

Stir Part A and mix for 30 seconds with an electrical stirrer (750-watt high power), then add Part B and mix both liquids thoroughly for 2 minutes until it achieves a homogenous consistency. Apply Weberfloor EP 523 SL to the primed surface. Spread the composite matrix with a notched squeegee or pin rake to the required thickness. Use a spike roller immediately to release the air/bubble.



Care & Maintenance

Regular cleaning and maintenance will prolong the life of Weberfloor EP 523 SL. Regular cleaning using a single or double-headed rotary scrubber with an alkaline detergent is recommended.

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.

CONSUMPTION

Approx. 3.2 kg/m² @ 2mm thick application.

STORAGE & PACKING

Weberfloor EP 523 SL is available in 21 kg sets (Part A - 12 kg pail + Part B - 2 kg pail + Part C - 7 kg pail).

Shelf life of 12 months if unopened, kept at temperatures of 10°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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