

Weberfloor EP Underlay 414

Three-component, epoxy self-smooth

Weberfloor EP Underlay 414 is a solvent-free, three-component epoxy resin filled with filler and silica sand mixture applied 0.5 - 1 mm thick. Weathering and UV light will affect its colour stability. It is recommended to apply a colour-stable coating.



PRODUCT BENEFITS



SOLVENT FREE



CHEMICAL RESISTANT



ABRASION RESISTANT

USES

Weberfloor EP Underlay 414 is for industrial floors, warehouses, chemical plants, manufacturing areas and car parks. It can be used as a scratch coat and underlayment for levelling the surface before the final floor finish. For areas subjected to heavy traffic, impact and chemicals.

ADVANTAGES

- Low maintenance
- Heavy duty for traffic
- High impact resistance
- Solvent free, low odor
- Excellent chemical resistance
- Seamless and hygienic finish

TECHNICAL DATA & PHYSICAL PROPERTIES

Colour
Pot Life
Curing Time

Natural
30 mins

	20°C	30°C
Light Traffic	24 hours	16 hours
Full Traffic	72 hours	48 hours
Full Cured	10 days	7 days

Density @28°C
Tensile Strength
Compressive Strength @ 28 days
Adhesive Strength
Flexural Strength
Impact Resistance
(BRE Screed Tester)

1.60 ± 0.1 g/cm²
22 N/mm²
50 N/mm²
> 2.0 MPa (Concrete failure)
30 N/mm²
0.3mm

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.

CONSUMPTION

Approx. 1.6 kg/m² per 1 mm coat application.

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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 compressive strength of $>25 \text{ N/mm}^2$ and bond strength of $>1.5 \text{ N/mm}^2$. Substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Cracks and hollows should be properly remedied. Rough contaminations and high spots can be removed by grinding.



Mixing

Pour Part B into Part A and mix both liquids thoroughly for 1 minute. Then add Part C and mix thoroughly for at least 2 minutes with an electrical stirrer (750-watt high power) until a homogeneous consistency has been achieved.



Application

Apply Weberprim EP 500 PR @ 0.2 kg/m^2 to seal the substrate porosity. Let the primer dry for 8-14 hours then apply Weberfloor EP Underlay 414 to a primed floor. Spread the composite matrix with a notched squeegee or pin rake to the desired thickness. Use a spiked roller immediately to ensure uniform thickness and remove entrapped air.



Care & Maintenance

Regular cleaning and maintenance will prolong the life of Weberfloor EP Underlay 414. Regular cleaning using a single or double-headed rotary scrubber with an alkaline detergent is recommended.

CLEANING

Clean the tools and equipment immediately after use with thinner.

STORAGE & PACKING

Weberfloor EP Underlay 414 is available in 9 kg sets (Part A - 4 kg + Part B - 1 kg + Part C - 4kg).

Shelf life of 12 months 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.

*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. (Oct '23)



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