weberfloor topcoat PU

UV stable solvent based polyurethane coating

Flooring

Leb	Jordan	Egypt	UAE	Qatar	Kuwait	KSA	Oman
18lit	18lit	-	18lit	18lit	18lit	18lit	18lit

PRODUCT

weberfloor topcoat PU is a two component, solvent based aliphatic iso-cyanate polyurethane coating known for its excellent physical properties, including high durability, flexibility, and resistance to abrasion and chemicals. The fully cured coating has excellent stability to UV light, It also has excellent hiding capability and color stability, moreover, it is a non-yellowing and non-chalky product. **weberfloor topcoat PU** is available in colored forms with gloss or matt finish.

SCOPE OF USE

- Parking decks
- Bridge decks
- Industrial floors
- Food industry floors
- Warehouses
- Service stations
- Chemical plants
- Metal treatment plants
- Machinery service areas

CHARACTERISTICS	
Color	Grey, yellow, red, ivory, transparent and others

Finish	Gloss & Matt
Specific gravity	1.3 (±0.05)
Volume solids (ASTM D2697)	52%±2
Pot life	@25°C 6 hours @35°C 4 hours
Drying time	@25°C 45min @35°C 30min
UV stability	Excellent
Tensile Adhesion (In-house)	Above concrete >2Mpa
	weberfloor epocoat + **weberfloor SIL S** >2Mpa
	weberfloor epocoat >2Mpa
	weberfloor epoprime SF >2Mpa
	weberfloor eposil >2Mpa
Over coating interval	@25°C 16 hours @35°C 10 hours
Chemical resistance	Excellent
Water resistance	Excellent
WFT	Around 100 microns
DFT	Around 60 microns
Application temperature	5°C to 40°C
Elongation (ASTM D412)	40%

Abrasion resistance ASTM D4060 (Wheel Cs 17, Load of 1000 g per wheel)	0.02g
Bond strength with concrete substrate (ASTM D4541)	2.8Mpa
Chemical resistance As per ASTM D1308, resistant to:	• Sodium Chloride Solution (10%) • Sodium Sulphate Solution (10%) • Hydrochloric Acid (10%) • Sulfuric Acid (10%) • Brake Fluid • Engine Oil

INSTRUCTIONS FOR USE

SURFACE PREPARATION

New concrete should be at least 28 days old. All surfaces should be clean, dry, and free from grease laitance, oil, dust, paint and any other substance that may prevent or reduce adhesion. Moreover, moisture content of the substrate should be <5%. Remove all weak, loose, smooth or broken pieces of concrete, until reaching a sound rough concrete. This can be achieved primarily by blasting or grinding. The prepared surface must have an average "Surface tensile adhesion strength" >1MPa. Moreover, it should have CSP (concrete surface profile) of 3-5. Concrete must be crack free, thus, any crack must be repaired prior to application with the appropriate epoxy-based material according to the crack dimensions. Depending on substrate conditions, deeper ruptures and cracks must be filled with **weberfloor epopatch** (up to 3mm) and **weberfloor epolevel** (3-10mm), freshly scattered with sand, to increase the bonding and create a strong mechanical key (For more details, please refer to the above-mentioned products data sheets). Once the substrate is well prepared, it must be dust free, preferably using a vacuum machine, prior to **weberfloor topcoat PU** application.

WARNING: Do not wash the substrate with water at any time!

After substrate preparation, clean all joints thoroughly then apply masking tape either side of the joint to protect surfaces from primers and excess of material. Backer Rod should be pressed into the joint, allowing a sealant depth of around 1.5cm, then inserts or pour the sealant such as **weber jointseal PU** or **weber seal PS 1000 PG** into the joint.

PRIMING

If the substrate is sound, untreated, and nonporous, the primer application is not normally required. In case of any doubts concerning the quality of the substrate, or its porosity, applying the primer will be required. For high porous substrates, it is recommended to apply **weberfloor epoprime SF** or **weberfloor eposil plus** and for low porosity substrates, apply **weberfloor eposil**. The primer should be left to achieve a tack-free condition before applying **weberfloor topcoat PU**. A second coat of primer may be required if the substrate is excessively porous. For thick application, the primer usage is a must.

PRODUCT PREPARATION

It is essential that the mixing instructions are carefully followed to ensure that all characteristics of the product are achieved. Failure to do so, can result to lower performance or even possible to failure of the product. Pour Part B over Part A, mix the two parts for 2-3 minutes using an electric mixer with low rotation speed (<300rpm). Make sure to keep the drill paddle below the surface of the material to avoid entrapping air, **weberfloor topcoat PU** must be well mixed to ensure proper chemical reaction. After mixing, keep the mix to rest for 2 minutes before the application. Do not add solvent, water or thinner at any time during the mixing or the application.

PRODUCT APPLICATION

weberfloor topcoat PU can be applied by using a brush or a roller. The first coat should be applied with a minimum film thickness of Approx. 100 microns. When the base coat has reached initial cure (within maximum 24 hours depending on the temperature), the second coat can be applied at minimum film thickness of Approx. 100 microns. Once the application is completed, allow adequate ventilation for solvents and fumes to evaporate. Plan your work by having everything ready to go and by limiting the quantity which can be mixed and applied in a time aligned with the product pot life mentioned in the product characteristics.

NOTE: weberfloor topcoat PU will not sag if applied vertically, up to 100 microns.

CONSUMPTION

The theoretical spreading range is 8–10m^2/litre.

Please note that the consumption may significantly increase when used in anti-skid systems or when applied as a coating over light-colored waterproofing products such as **weberdry 360 PU**.

STORAGE

12 months after manufacturing date in its original packing non open and in dry cool area.

SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO_2 foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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