weberfloor eposcreed 100

Heavy duty, trowel applied epoxy-based screed

Flooring

Leb	Egypt	Jordan	UAE	Qatar	Kuwait	KSA	Oman
-	-	-	-	-	-	28kg	-

PRODUCT

weberfloor eposcreed 100 is a three-component, solvent-free epoxy resin screed designed for high-performance industrial flooring. It combines an epoxy resin base, a hardener and specially graded aggregates to deliver exceptional mechanical strength, chemical resistance, and durability.

SCOPE OF USE

weberfloor eposcreed 100 is a trowel-applied epoxy screed, especially engineered to perform in hot, humid and tropical climates, with an application thicknesses ranging from 5mm to 100mm.

- Heavy-duty industrial floors
- Workshops and warehouses
- Loading bays and ramps
- Chemical processing areas
- Engineering and manufacturing plants
- Car parks and hangars

ADVANTAGES

- Durable: Withstands heavy mechanical loads
- Non-slip: Provides a textured, anti-skid finish
- Seamless: Monolithic application eliminates joints
- Low odor: Solvent-free formulation
- High strength: Superior compressive and flexural strength
- Easy Application: Designed for efficient mixing and laying
- Locally Formulated: Suitable for hot and humid climates

CHARACTERISTICS	
Form	Semi-dry
Color	Brown
Mix Density	1.95±0.1kg/LT
Grain size	Up to 3mm
Mixing time	5-10 minutes
Working time	60 minutes @20°C, 40 minutes @35°C
Application temperature	+5°C to +35°C
Application thickness	5 to 100mm
Light foot traffic Heavy traffic	12-24 hours 7 days
Compressive strength ASTM C579 - 18	85±5 Mpa at 1 day 90±5 Mpa at 3 days 100±5 Mpa at 7 days
Flexural strength BS EN 196-1:2016, Clause 10.1	25±5 Mpa at 1 day 30±5 Mpa at 3 days 35±5 Mpa at 7 days

Tensile Strength BS 6319-7:1985	18 Mpa at 7 days
Pull-Off Test BS 1881-207:1992 Section 8	>2.8 Mpa (Failure in Substrate)
Durometer Hardness ASTM D2240 - 15	84 HD
Percentage of Indentation MIL-D-3134J (NAVY) Section 4.6.13.	0% (under 2000 lbs load)
Resistance to alkalis	Excellent
Cleaning	Clean tools and equipment using a solvent like acetone, xylene,etc...

APPLICABLE STANDARDS

ASTM C579 – 18 , BS EN 196-1:2016, Clause 10.1,
ASTM D2240 – 15, MIL-D-3134J (NAVY) Section 4.6.13.
BS 6319-7:1985, BS 1881-207:1992 Section 8.

INSTRUCTIONS FOR USE

SUBSRATE 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 a 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 repair material,according to the crack dimensions. Deep ruptures and cracks must be filled with epoxy-based material freshly, such as **weberfloor epopatch** scattered with sand, to increase the bonding and create a strong mechanical key (For more details, please refer to weber technical department). Once the substrate is well prepared, it must be dust free, preferably using a vacuum machine, prior to **weberfloor eposcreed 100** application.
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 insert or pour the sealant such as **weberjointseal PU** or **weberseal PS 1000 PG** into the joint.

Note: **weberfloor eposcreed 100** could be applied without joints, however, in case control, expansion or construction joints exist in the substrate, it should all be copied and maintained through it.

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

Priming

The usage of primer is a must prior to **weberfloor eposcreed 100** application. For high porous substrates, it is recommended to apply **weberfloor eposil plus**. The primer should be tacky before applying the epoxy screed.

A second coat of primer may be required if the substrate is excessively porous. If due to some site conditions, the primer could not be covered with **weberfloor eposcreed 100** within 24 hours, a second anti-skid primer layer must be applied using the same primer treated with Weber silica sand, **weberfloor SIL S** (0.3-0.8mm), while the primer coat is still wet. Substrate must always be clean and dust free, before applying the second anti-skid primer and before applying **weberfloor eposcreed 100**.

PRODUCT PREPARATION

weberfloor eposcreed 100 can be mix using a concrete mixer, a screw mixer or drum mixer however, the fastest and most efficient and productive way to mix this product, is to use a screed drum mixer.

Pour Part B over Part A, then mix the two parts hardener and resin using the suitable mixer with low rotation speed (<300rpm). To obtain a uniform epoxy mortar compound, gradually add the graded aggregates to the epoxy fluid while mixing for 2 to 3 minutes. When applying the product at a minimal thickness of 5mm, it is crucial to take extra precautions during substrate preparation to avoid issues.

PRODUCT APPLICATION

Limit the work areas into manageable sections to ensure that each section can be completed within the product's pot life. Apply the mixed screed while the primer coat remains tacky, thereafter spread **weberfloor eposcreed 100** mixture evenly across the substrate using levelling boards and guide rails, leaving a small excess of material above the pre-installed guides, such as steel rails set to the required height. Heavily tamp the screed to achieve full compaction, and for thicker applications, compact in layers. Level the surface by striking off excess material with a straight edge ruler across the battens, then compact thoroughly by tamping. Finally, smooth the final surface using a hand trowel to achieve the final texture.

PRECAUTIONS

- All existing movement/expansion and control joints in the base should be maintained and copied through **weberfloor eposcreed 100**
- In hot and dry weather, it is preferable to apply the product early morning or late afternoon.
- Avoid work under heavy windy condition where the product may dry fast and cracks might appear.
- All the opening (windows, doors) should be closed to reduce the effect of wind during the application and while the applied area still fresh. Moreover, the applied materials should be protected from sun light.
- It is recommended to use protective gloves and in case of contact with the eyes, clean thoroughly with water.
- After usage, clean tools with solvents like acetone, xylene.

CONSUMPTION

19 -20kg/m^2 per 1cm thickness.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAINT-GOBAIN

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.

NOTE