

DESCRIPTION

EPO SL is a cementitious, self-leveling floor overlay for re-leveling and refurbishing cementitious based floor slabs. **EPO SL** can be laid at the thickness from 3mm-15mm. **EPO SL** can be coated with resin based seal coat.

TYPICAL APPLICATIONS

- Finishing rough undulating floors
- Leveling up of office floors and warehouses
- Levelling of surfaces and repair of old worn concrete.
- Fast rack industrial refurbishment

ADVANTAGES

- Highly fluid and pumpable for fast installation
- Quick easy repairs of worn floor surfaces
- Ready for light foot traffic after 12-18 hours
- Return to service in 48 hours
- Self-smoothing, eliminates finishing procedures

PRODUCT DATA

Form	Powder
Color	Grey
Packing	25 Kg Kraft bag
Mixing water	5.5 ± 0.5 Ltr water for 25 Kg powder
Consumption	2 Kg /m ² /mm. Minimum layer thickness of 3 mm Maximum layer thickness of 15 mm
Shelf life	12 months in the unopened, original package as stored in dry and cool environment

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Density	ASTM C138	2.20±0.1Kg/Ltr
Work time @ 25°C	---	30 min
Flow Time Initial Flow 0 min 15 min 30 min	ASTM C 1208	400 mm 350 mm 270 mm
Compressive strength 3 Day 28 Days	ASTM C 109	> 8 N/mm ² > 25 N/mm ²
Flexural strength 1Day 28 Days	BS EN 13892 Part 1 & 2	> 4 N/mm ² > 6 N/mm ²
Abrasion Resistance (wt loss in gms) by Taber Abraser1000 cycles of 1kgCS 17 wheel	---	0.24gms
Setting times @ 25°C Initial Final	---	90 – 120 min 240 – 360 min
Foot traffic @ 25°C		12-18 hours
Drying shrinkage @28 days	ASTM C 157	1.8 mm/m
Pull off bond strength	---	> 1.0 MPa

APPLICATION PROCEDURE

Substrate must be clean and free of oil, sealers, curing compounds, paint, polymer coatings, dust or other foreign (contaminating) matter. Remove all weak or broken pieces of concrete. If necessary, employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment.

The acceptable ambient temperature for application is from +5°C to +45°C and maximum application surface temperature is 30°C.

Voids and cracks (water pipes, holes, drainage pipes etc.) should be filled to prevent seepage through to lower levels. Consult with your **EPO GULF TECHNICAL DEPARTMENT** for product recommendations.

EPO SL

Industrial Grade Self-leveling Cementitious Floor Overlay



Note: Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

PRIMING

The substrate shall be primed with **EPO LATEX SBR**. Use 0.2Kg/M² (approx.) of **EPO LATEX SBR** for priming. Place the topping on the wet/tacky primer before it cures.

MIIXING

Mechanical mixing is required for **EPO SL**. For small areas, a slow speed stirrer of not more than 600 rpm fitted with a helical paddle is suitable. Mixing time is 3 minutes. Place the required quantity of water into the mixing vessel. Whilst mixing, slowly add the powder to the water within 2 minutes then mix for a further 1 minute. Allow mixed **EPO SL** to stand for 3 minutes and then remix prior to application. Use chilled water at high temperatures for longer application time.

For improved efficiency and continuous production of **EPO SL**, it is recommended to use at least two mixing buckets.

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to **EPO GULF TECHNICAL DEPARTMENT** for suitable machines.

METHODE OF USE

Pour mixture over substrate to desired thickness at a rate of 2Kg/M²/mm (material after mixing). When pouring from a mixing vessel or using a mechanical mixer with an application hose, the discharge point should be approximately 200mm from the floor to prevent splashing and air entrapment. Progress should be steady and even.

Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle. The fresh wet topping can be rolled immediately with a suitable long spiked roller to release all air retained within the underlayment. Do not roll material that has been applied for more than 10-15 minutes.

CURING

EPO SL is self-curing, but as with all cementitious products in hot weather, takes adequate measures to protect it from exposure to direct sunlight and hot winds. **DO NOT** use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floorcoverings.

PACKAGING

EPO SL is available in 25kg bags.

YIELD

A 25 Kg bag of **EPO SL** mixed with 5.5 liters of water yields 14 liters.

CLEANING

Tools should be cleaned with water before the material hardens. Hardened material will need to be mechanically removed.

PRECAUTIONS

EPO SL is not toxic, but as with other products containing cement it has an alkaline nature and thus can be irritating to skin and eyes. Wear simple dust masks and gloves when handling. Keep out of reach of children. Wash off splashes of material with clean water. If irritation persists, seek medical advice. Refer to Material Safety Data Sheet for further information.

HEALTH AND SAFETY

EPO SL is non-toxic but mildly alkaline. Gloves must be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.



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Ver 02/22

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