

POLY FLOOR EP SL

Self-leveling Epoxy Resin Floor Topping

PRODUCT DESCRIPTION

POLY FLOOR EP SL is a solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed provides 3 mm. epoxy resin floor topping with a unique laying properties.

POLY FLOOR EP SL is supplied in pre-weighted packs, Base (A), Hardener (B) Aggregate (C) and colour pack that are ready to mix and to apply.

TYPICAL APPLICATIONS

POLY FLOOR EP SL is used in areas subject to pedestrian and wheeled traffic, such as:

- Laboratories.
- Stores.
- Kitchens.
- Schools. Electric Plants.
- Hospitals.
- Show rooms.
- Offices.
- Canteens.
- Industrial areas.
- Garages.
- Warehouses.

And any area where a hard wearing, hygienic, dust free and chemical resistance is required.

PRODUCT FEATURES

- Easy to mix and to apply.
- Solvent-free.
- Odourless epoxy.
- Excellent adhesion to concrete.
- High chemical resistance.
- Eliminates bacterial growth.
- Durable, dense, impervious, seamless floor.
- Suitable for the Middle East conditions.
- Smooth surface, easy to clean.

PROPERTIES

Colours

Silver gray, dark grey, green, brick red other colours on request.

Pot life

70 minutes @ 20°C

40 minutes @ 30°C

Initial Hardness

24 hours @ 20°C

18 hours @ 30°C

Full Cure

7 days @ 20°C

6 days @ 30°C

Working Conditions

The temperature should be above 10°C and avoid application in direct sunlight

Mechanical Properties

Compressive Strength

80 N/ mm² (ASTM C-579)

Flexural Strength

45 N/ mm² (ASTM C-293)

Tensile Strength

20 N/ mm² (ASTM 0-638)

Bond Strength to concrete

3.0 N/ mm² (ASTM C-882) (concrete failure).

Chemical Resistance

POLY FLOOR EP SL has been tested by immersion for one year in the following chemicals, the results of visual inspection were

Hydraulic acid, 50 %	Excellent
Nitric acid, 25 %	Excellent
Sulphuric acid, 50 %	Excellent
Phosphoric acid, 50 %	Excellent
Acetic acid, 10 %	Excellent
Lactic acid, 10 %	Excellent
Butyl Alcohol	Good
Xylene	Good
White spirit	Excellent
Sodium Hydroxide, 50%	Excellent
Ammonia, 20 %	Excellent

Guide for Application

Surface Preparation

All surfaces must be clean, dry and free from oil, grease and loosely adhering particles

Cement laitance should be removed mechanically.

Priming

The prepared surface should be primed with **POLY PRIME EP** (see separate data sheet).

Mix two components of the primer and then apply with roller or stiff brush. If the substrate is **too** porous, two coats of the primer are recommended.

Mixing

POLY FLOOR EP SL is supplied in Base +Hardener + Filler + Colour pack.

Mix the base and hardener components with the colour pack in the mixing container using a slow speed electric drill.

Add the filler slowly while mixing, mix for 5 minutes until homogenous consistency is achieved.

Application

Pour the mixed materials onto the prepared and primed substrate.

Spread the required thickness using a toothed trowel or comb.

After lying the materials use a spiked roller to distribute evenly and remove entrapped air.

CLEANING

Clean tools and equipment immediately after use with **POLY SOLVENT EP**.

Important Recommendations

- Minimum age of concrete should be 28 days; humidity of substrate should be less than 5%.
- The temperature of the substrate should be between 10°C and 35°C.

PACKAGING

POLY FLOOR EP SL is supplied in 10. 00 kg pack.

COVERAGE

POLY FLOOR EP SL approximately covers 1.82 m2 at 3 mm. thickness per 20 kg pack.

STORAGE

POLY FLOOR EP SL should be kept in a temperature between 5°C to 35°C.

SHELF LIFE

One year.

HEALTH AND SAFETY

- Epoxy Resins contain irritants, especially to the skin and eyes.
- Persons handling these materials should use appropriate protective clothing, including rubber or plastic gloves.
- If the epoxy resin should contact the skin, it should be removed immediately with a dry cloth or paper towel, and the areas of contact washed thoroughly with soap and water.

Guarantee / Warranty

We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

POLYCOO services is free and the company dose not accept liability for any loss arising from it.

TECHNICAL SERVICES

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.



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