

# Polypoxy SL 20

## Epoxy resin based self levelling floor topping

Seamless, tough, chemical resistant and solvent free self levelling floor topping



### CHARACTERISTICS

- ▶ Self Levelling
- ▶ Good resistance to a wide range of chemicals.
- ▶ Seamless floor, which helps in keeping the microbial count low
- ▶ Provides a hygienic floor which can be cleaned easily
- ▶ Provides a good abrasion resistance and dense, impervious flooring
- ▶ 100% reactive system totally free of solvents



### DESCRIPTION

Polypoxy SL 20 is a three component, solvent free, epoxy resin based self levelling floor topping which provides a seamless, tough, chemical resistant and hygienic floor surface. It can be applied in the thickness of 1mm to 4mm, giving a glossy floor finish.

### FIELDS OF APPLICATION

Used to provide a heavy duty floor screed for:

- laboratories
- plant room for pharmaceutical and health care product manufacturing units
- operation theatres
- food & beverage manufacturing industries
- light industrial plants

### APPLICATION INSTRUCTIONS

#### Surface preparation

Clean the surface of all dust, dirt, oil & grease, cement laitance and all loosely adhering particles. New concrete surface shall be at least 28 days old and the surface moisture content less than 5%. Captive/grit blasting and grinding is recommended for the most effective surface preparation. Surface irregularities and blow holes shall be repaired with Polypoxy BF (Epoxy resin based blow hole filler and skimming mortar) or Polycrete ST (cementitious repair mortar). Alternatively an epoxy resin based scratch coat can be used when repairing larger areas (> 0.5m<sup>2</sup>).



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The surface after carrying out the necessary cleaning shall be vacuumed for removing the dust debris left over after the cleaning process.

#### Priming

The surface shall be primed with Polyprime EP @ 4-5 m<sup>2</sup>/L. For highly porous substrates, a 2<sup>nd</sup> coat may be required. The coating is applied when the primer is dry. However, in all circumstances, the coating shall be applied within 24 hours of application of the primer. If the primer surface is left open for more than 24 hours, then a fresh coat of primer has to be re-applied.

#### Mixing

Polypoxy SL 20 is supplied in three pre-weighted packs (Resin, hardener and fillers). The components are just to be mixed at site and used. However, part mixing is strictly prohibited. Take a suitable container and pour the resin (A) into it. Add the hardener (B) into the resin and mix thoroughly with a paddle mixer. Use of a slow speed drill is recommended to reduce the formation of air bubbles. Then slowly add the filler (C) into the container and mix thoroughly for a few minutes.

#### Application

Ensure sufficient labor and material is available at site to ensure a smooth continuity of the application of the

flooring. Apply the Polypoxy SL 20 topping, by pouring on to the primed surface and spread with a steel notched trowel to achieve a 1 mm to 4 mm seamless topping. Once the material is evenly spread, continuous spiking with a spiked roller is to be done to remove all entrapped air. Spiking adjacent layers is recommended to be done at 50% overlaps.

### CAUTION

- do not use below 5°C
- over troweling is to be avoided
- Polypoxy SL 20 should not be applied to surfaces which has rising dampness and there is a phenomenon of reverse osmosis. In addition to that, application is always recommended to be carried out when the atmospheric temperature is low.

### CLEANING

Clean the equipments with Polysolvent immediately after use. Hardened materials can be removed mechanically only.

### MAINTENANCE

As a good maintenance practice and increasing the life of the flooring, a regular cleaning of the floor with a light cleaning agent is suggested. However, steam cleaning should be avoided.

### COVERAGE

Polypoxy SL 20	1L/m <sup>2</sup> /mm thickness
Polyprime EP	4-5 m <sup>2</sup> /L

### STORAGE & SHELF LIFE

Store in a dry, cool and shaded area. Protect from sunlight, frost and high humidity. In tropical climates, store the material in air conditioned area at less than 25°C. The shelf life of the product is 12 months if stored as per recommendations. Exposure to heat and high humidity will result in the premature deterioration of the product and reduce its shelf life considerably.

### HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

### TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Density, [g/cc]	1.75±0.05	ASTM D 1475
Finish	Glossy	
Compressive strength @7days, [N/mm <sup>2</sup> ]	> 70	ASTM C 579
Flexural strength @7days, [N/mm <sup>2</sup> ]	> 30	ASTM C 580
Pot life [mins @ 30°C]	60	ASTM D 2471
Initial cure, [hours]	24	-
Full cure, [days]	7	-
Abrasion resistance, [mg]	<50	ASTM D 4060
Application temperature, [°C]	5 to 35	-
Chemical resistance	Resistant	ASTM D 543

All values given are subject to 5-10% tolerance

### SUPPLY

Polyprime EP	5L & 15L kit
Polypoxy BF	3kg kit
Polycrete ST	25kg bag
Polypoxy SL 20	15L kit
Polysolvent	5L & 20L pail

*#Application of the system at a higher thickness will result in excessive air entrapment if application is not done properly.*

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.