



Selection & Specification Data Sheet

Description

Cpox PU SL 1000 is a solvent free, self-smoothening, pigmented polyurethane floor topping, which is laid at thickness of 1 mm to 3 mm.
Cpox PU SL 1000 is joint less topping, smooth, non-porous, hygienic, chemically resistance and easy to clean floor. It is must ideal and economical substitute for a floor coating.

Advantages

- Jointless flooring system
- Unlike floor-coating Cpox PU SL 1000 is applied in a single application, of desired thickness over a primed surface, resulting in durable and abrasion – resistant flooring.
- An unique formulation of Cpox PU SL 1000 renders the flooring abrasion resistant, capable of absorbing impact loads, chemical resistant to various chemicals
- Easy application
- Easy Clean
- Choice of attractive colours.
- Very – low wear & tear compared to a floor coating.

Areas of Application

- Cpox PU SL 1000 is used in areas where heavy duty protection is required against abrasion, chemicals. It finds application in:
- Pharmaceutical
 - Electric / Electronics industries
 - Computer rooms
 - Engineering Industries
 - Auto-ancillaries and service stations
 - Laboratories
 - Aerospace and light-engineering industry
 - Picture-tube manufacturing plants
 - Malls and department stores
 - Fermentation floors in tea garden
 - Textile mills
 - Food Processing industries

Technical Details

MIXED DENSITY : 1.6 kg/ltr approx.
POT LIFE : 20 min at 25°C
CURING TIME :
Foot traffic - After 18 hours.
Medium weight movement - After 2 to 3 days
Full chemical Cure - After 7 days
SHRINKAGE FACTOR : Nil
Colours Also available all RAL Shade if required any special colors we will provide.

PRODUCT	THICKNESS	MIXING RATIO BY (WETH)	COVERGAE SQMT.
CONC (p) PRIMER	75 MICRON	A:B=1:1	0.15 KG/SQM.
Cpox 715	2 MM	A: B :C 1:1:10.5	4.20 KG/SQM.
Cpox PU SL 1000	1 mm	Pre-weighed packs with resin, hardener, aggregates and colour	1.60 KG/SQM.

Performance Data

Compressive Strength >50 – 55 MPa
Flexural Strength > 45 N/mm² (7 days)
Tensile strength > 10 – 15 MPa
Elongation ASTM > 15 %
Abrasion resistance >70 -75 mg loss
Bond Strength > 3.0 N/mm² (Concrete failure)
Impact resistance >12.0 Joules

Packaging

Supplied in 17 Kg. pack
Special packs may be available on request.

Application Methodology

Pot Life of Cpox PU SL 1000 is 15-20 minutes at 30 degree C. Cpox PU SL 1000 must be laid immediately after mixing is over. The mix should be spread evenly over the recommended area using a steel trowel with notches. Use spike roller with long handle on the floor to remove entrapped air. Ensure that the surface is free from all porosities. Allow to cure for 5-6 hours. Mix Cpox PU SL 1000 resin and hardener in the pre weighed ratio. Add EPI colour (colour concentrate) and formulated aggregates.

Caution: Where there are expansion joints in the sub-floor Cpox PU SL 1000 should not be done over expansion joints. Cut open the concrete floor & anchor and fill the joint with cpox 12. Then carry out above procedure.

CPOX PU SL 1000

Self smoothing PU floor topping



Application Methodology

SURFACE PREPARATION

The concrete surface must be dry, sound, free from dust, laitance and other contaminants. Moisture content of the concrete substrate must be less than 4%. Surface must be prepared by manual/ mechanical abrasion. Oil and grease must be removed by washing with liquid detergent or solvent wash. Allow the floor to dry before priming. Old coating if any, must be removed by grinding the surface.

IMPORTANT SURFACE CONDITION:

Please ensure the moisture content on the concrete to be less than 5% before priming. Concrete should be sound and minimum M20 grade . Minimum substrate temperature is 10° C.

Priming

One coat of Conc (P) is recommended for priming. Approx. 100 to 150 gm of primer will be required depending on the substrate condition and porosity. For kota stone flooring same primer can be used. Roughen the surface of conc (P) with emery paper for better adhesion of top coat. Laying of top coating can be done after 3- 4 hours (depending on temperature conditions) of application of primer when the surface is nearly tack free. **Note:** For application of primer system, please refer to Conc (P) data sheet. under stirring and mix uniformly at 400-500 rpm for at least 3 minutes.

Mixing of Cpox PU SL 1000

Mixing is carried out in a specially designed drum mixer or in a bucket using drilling machine fitted with paddle or suitable stirrer. Initially stir COMP A to avoid any sedimentation. Then to calculated quantity of Comp. A , add P (Colour Paste) and mix it uniformly at 400-500 rpm for at least 3 minutes . finally add COMP B and mix for 3 minutes.

Health & Safety

Always use protective gloves, respiratory mask and goggles during use. Please contact our technical services department for Material Safety Data Sheet.

Safety Instructions

Please refer our Material Safety Data Sheet.

Self Life

One year in original unopened containers. Do not expose the stored material to direct sunlight. Shall be kept in cool and dry place.

For Further Information, please Contact

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The information provided in this product data sheet is intended as a general guide only based on our understanding and experience of the products when properly used under normal conditions. The information is given in good faith and owing to variations in actual site conditions which are beyond the control of the company, no liability can be inferred from the information given. Users should determine the suitability of the product for their own particular purpose by their own tests.