# EP COAT PU

TECHNICAL DATA SHEET

## PU BASED WALL & FLOOR COATING

### Description

EP COAT PU water based polyurethane resin dispersion specially formulated to provide a durable coating suitable for application to both vertical and horizontal surfaces. It cures to form a smooth hygienic matt film with good resistance to a wide range of mineral and organic acids, fats, alkalis and oils.

### Uses

EP COAT PU is used as a hygienic and chemical resistant and UV stable exterior & interior coating for concrete walls, and concrete floors.

- Precast concrete slabs/ Panels
- Concrete screed
- Cementitious Plaster
- Walls in operation theaters and hygiene rooms
- Industrial environment subject to chemical and
- physical abuse – Walls & Floors
- Commercial buildings, Walls & Floors
- Outdoor exterior coatings (resistance to UV and
- weathering)

### Advantages

- Excellent adhesion and compatible with all substrates.
- Can be applied directly on to concrete wall and floor surface.
- It is hygienic and aesthetic, forms a smooth, matt and easy to clean surface on curing.
- Light fast and UV stable
- High chemical resistance
- Low VOC
- Breathable Membrane

### Technical Data

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|---|---|
| Basis | 3 component kit (Base + Hardener + Pigment Paste) |
| Pot life: @ 20°C<br>@ 30°C | 1 hrs<br>45 minutes |
| Time between coats:@ 30°C | 4 - 6 hrs. |
| Tensile Hardness: | Approx 2H (Gauge) |
| Full cure | 7 days |
| Volume solids(mixed materials) | 41% |

### Application Instruction

**Surface Preparation:**

**Floor**

The floor levels are very critical especially in case of antistatic epoxy flooring as un-evenness influences the film thickness and thus the conductivity of the system. High spots must be removed by chipping or grinding. In case of the basic floor undulations (it should not be more than 10mm when checked with a 4 mt metal/wooden bar), the conductivity results may show variation. The floor Undulation should be repaired with suitable. Non shrink cement based repair material/or Epoxy based repair system Use suitable means to prepare the substrate dependent on its condition such as e.g. sweeping, vacuuming, brushing, scrabbling, sandblasting, high pressure water jetting or shot blasting. Level irregularities with a smoothing material in order to ensure an even thickness of the conductive finished coating. In addition the following minimum substrate requirements are to be fulfilled.

**Wall**

Hand grind the plaster to ensure a smooth and sound surface. Porosity in the plaster may require one extra coat to have a proper finish.

**Priming:**

The concrete surface after proper and thorough surface preparation has to be primed with appropriate primer Self priming coat of EP COAT PU. The primer is a solvent free resin system. It is designed for better adhesion with the substrate and the flooring system. The primer should be mixed in the given proportions supplied. The entire contents of the hardener should be poured into the base and should be mixed using a low speed drill machine with an attachment for about 3 minutes @ (150-200 RPM) to get a homogeneous mix. Once mixed, the primer should be applied immediately on to the prepared concrete surface. After priming, the surface has to be kept for drying - approximately 8-12 hrs. For more information refer Primer TDS..

**Product mixing:**

First thoroughly mix the individual container of the base, Pigment paste and the Hardener before mixing the entire material together. Add the pigment paste into base container, mix properly, empty out the all the pigment paste from the container by adding 10-15 ml water.

Then add entire contents of the hardener in to the container having mixed material (base + pigment paste), (wash the empty hardener can with 25 – 50 Ml of water and decant all the quantity. of hardener remaining to the can and add the washed water also in the base container, use clean water for washing). Mix the entire contents for at least 3 minutes mechanically using a slow speed (200 - 300 rpm) heavy duty drill fitted with a mixing paddle mix till homogeneous consistency and color is obtained.

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**Product application:**
**Coating**

The mixed EP COAT PU shall be applied to the cured primed substrate in 2 coats till a uniform continuous film is achieved using a standard paint brush, good quality lambswool roller or spray equipment. Approximately 80 microns dry film thickness is achieved in two coats of application.

**Cleaning:**

Tools and equipment should be cleaned with water immediately after use (wet condition) once dry should be removed mechanically.

### Consumption

Approximately 100-125 gm/Sq m/Coat depending on surface quality. 8 $m^2$/kg @100 microns WFT (40 Micron DFT) each coat. 2 Coats recommended. Hence coverage will be Approximately 4 $m^2$ /kg @ 80 Micron DFT in two coats.
However, practical coverage depends on the nature and porosity of the substrate and application conditions. It is always recommended do on site substrate sample application to understand the consumption (Consumption for the porous substrate goes more as compare to the non-porous substrate.)

### Packaging

EP COAT PU: Available in 6 kg packing
(Base + Hardener + Pigment Paste)

### Storage and Shelf life

6 months if stored in unopened container below 30ºC under shaded area.t.

### Safety Precautions

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data..

### Disclaimer

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