

## TECHCOAT CLEAR

### POLYURETHANE CLEAR COATING

### DESCRIPTION

**TECHCOAT CLEAR** is a two component clear coating, which can be applied on various surfaces like metal, concrete, wood, asbestos floors & certain plastics like PVC, Oxy-flouroethylene etc. It is a chemically curing type product which forms a clear impervious, tough, hard & abrasion resistant, waterproof and durable clear coating. It remains unaffected by water, dilute acids, alkalis & various other chemical solutions.

### FEATURES / ADVANTAGES

- Cold curing, cures at ambient temperature
- It is UV resistant
- Chemically curing type, no external curing is required.
- Bonds strongly on cement concrete, cement plaster, asbestos, mild steel, wood, stones, etc.
- Cures to a tough, flexible and abrasion resistant coating.
- Resistant to water, dilute acids, alkalis, oils & various other chemical solutions.
- Resistant to fungus & micro-organism growth.
- Performs well in service temperature range of -20<sup>0</sup> C to + 80<sup>0</sup> C.
- Being clear in nature, it does not affect the original appearance / color of surface.

### TYPICAL APPLICATIONS

- Protection / waterproofing of external vertical walls, building roofs, terraces from external disturbances
- Can be applied on metal, wood, asbestos, concrete, etc.
- Additional protection to top coat from weathering, corrosion etc.
- Can be applied on concrete / metallic floor as a scratch proof abrasion resistant coating

### TYPICAL CHARACTERISTICS

- |  |        |   |                         |
|--|--------|---|-------------------------|
| • Mixing Ratio                                     | Part I | : | Part II                 |
|  | 80     | : | 20 pbw                  |
| • Consistency of the mix                           |        | : | Ready to use, brushable |
| • Application time (pot life) at 30 <sup>0</sup> C |        | : | 2-3 hrs.                |
| • Surface dry time                                 |        | : | 30-40 minutes           |
| • Tack free time                                   |        | : | 2-3 hrs.                |
| • Hard dry time                                    |        | : | 24 hrs.                 |
| • Complete curing time                             |        | : | 72 hours minimum        |
| • Recoatability time at 30 <sup>0</sup> C          |        | : | 10-12 hrs.              |
| • Finish   |        | : | Smooth & glossy         |

## TECHCOAT CLEAR POLYURETHANE CLEAR COATING

- Dry film thickness : 40-45 microns per coat
- Coverage : Concrete - 35-40 sq.ft./ltr/coat  
Steel - 50-60 sq.ft./ltr/coat

### DIRECTIONS FOR USE

### SURFACE PREPARATION

Surface preparation is of great importance and will affect the degree of adhesion and life of the coating. The surface should be absolutely dry, free from dust, loose particles, damaged plaster, oils, greases, mould release agents and dirt. Thorough wire brushing of the surface is a must. Previously applied bituminous compound / coating should be removed to the extent possible. The new concrete / plastered surface should be cured with water for minimum 28 days. Clean the dust by washing it with water & allow the surface to dry completely. If the surface is too old and saturated with dirt, treatment with 15-20% hydrochloric acid is recommended with thorough wire brushing. Wash the surface with water till neutralization. Allow the surface to dry completely.

### MIXING

Mix Part I & II in their individual original containers, pour the entire quantity (content) of the Part II tin into the Part I tin. Mix both the parts thoroughly by a spatula to a homogenous mixture for at least 5 to 10 minutes.

### METHODS OF APPLICATION

By means of a brush or an airless spray.

### THINNER

TECHCOAT CLEAR is normally supplied at application viscosity. However 5% of solvent, Xylene or Toluene can be used to overcome the problem of quicker drying due to hot substrate and heat of the sun.

### CLEANING OF TOOLS AND EQUIPMENTS

Tools and equipment's should be cleaned with Xylene, Toluene or Acetone solvents

### STORAGE & SHELF LIFE

The shelf life is twelve months from the date of manufacturing when stored in original unopened containers at a temperature between -10<sup>0</sup> C to 35<sup>0</sup> C. Materials must be used as soon as the containers are opened.

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#### PACKING

1 liter, 4 liters, 20 liters

#### PRECAUTIONS

- Some people are sensitive to resins, hardeners, solvents and its vapours, so it is advisable to use hand gloves and goggles.
- While application, proper ventilation should be provided.
- Avoid application below 10<sup>0</sup> C of surface temperature. At low temperatures, drying and curing periods will be prolonged.
- Avoid application on damp or moist conditions as it will create blister formation problem.
- Do not apply from inside of the tank or room, solvent vapours will pose problem to the applicator.
- Store at cool and dry place.
- Before opening part II bottle, place it at a slight inclined angle, away from your body and then open it slowly.