TECHCOAT

Whit Polyurethane Waterproof Coating

CHOKSEY™
An ISO 9001-2000 Company

DESCRIPTION

TECH COAT is a two component polyurethane polymer based waterproof coating, It cures to form impervious, tough and abrasions resistant, waterproof and weather proof coating. It remains unaffected by rain water, a soap water, dilute acids, alkalies and various other chemical solutions. It reflects light and heat.

TECHNICAL INFORMATION

CHARACTERISTICS

Mixing ratio	: part I : part II
	90 : 10 parts by volume
Consistency of the mix	: brushable
Application time (pot life) at 30^{0}C	: 3-4 hours
Surface dry time (tack free time)	: 15-30 min
Hard dry time at 30^{0}C	: 8-12 hours
Complete curing time at 30^{0}C	: 2 Hours minimum
Recoatibilty time at 30^{0}C	: 10-12 hours
Finish	: smooth /semi gloss
Dry film thickness	: 40-45 microns/ coat

Coverage

- concrete : 40-45 sq ft/lit/coat
- Steel : 70-75 sq ft/lit/coat

FEATURES / ADVANTAGES

- Cold curing, cures to a tough, flexible and abrasion resistant coating.
- White in colour reflects light, UV rays and heat and remains unaffected by exposure.
- Bonds strongly on cement concrete, asbestos, mild steel, cement plastered TECHOXY-3 applied surfaces.
- Resistance to fungus micro-organisms, water, dilutes acids, alkalies, oils and various other chemical solutions.
- Performs well in the temperature range, of +20^{0}C to +80^{0}C
- Can be tinted with Universal strainers for light shades.

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APPLICATION

FOR WATERPROOFING OF

- External vertical walls of building.
- Building roof terraces
- Flat or sloppy roofs
- Chajjas
- Concrete / steel water tanks (externally)
- For corrugated AC sheets roofing

MIXING

Pour the entire quantity of part II into part I. mix both the parts thoroughly by spatula to a homogeneous mixture.

THINNER

Techcoat is normally supplied at application viscosity. However 5% of solvent (xylene / toluene) can be used to overcome the problem of fast drying due to hot substrate and sun heat.

DIRECTION FOR USE

SURFACE PREPARATION

Surface preparation is of great importance and will affect adhesion and life of the coating. Surface should dry, free from dust, loose particles, damaged, grease etc. thorough wire brushing of the surface is must. Previously applied bituminous coating should be removed. New concrete plastered surface should be cured with water for minimum 28 days.

WATERPROOFING OF ROOF TERRACE AND PARPET WALLS.

- Repair damaged cement plaster or concrete mortar with Master Crete M-81, acrylic modifier.
- Use 5-10% by weight of M-81 on cement weight for the preparation of mortar.
- Before placing mortar, apply bond coat of OP cement and M-81 (2:1 parts by wt) M-81 improves the compression, flexural strength and bonding of new mortar with old concrete surfaces
- Cure the repaired mortar for 7 days to 28 days with water before application of Techcoat.
- Fill the cracks upto 2 mm with Techoxy or Techmaster with OP cement white\grey (1:2 parts by weight) putty. Allow to dry overnight 24 hours.
- Seal the cracks wider than 2mm with polysulphide sealant techseal RDL -940 and Primer RDL -942after making the joint /groove of 5×5 mm or 10×10 mm into crack.
- For large terrace (>3000sq ft) provide dummy joints at span of 5 meter length. Seal the joints with polysulphide sealant, Techseal RDL -940 and Primer RDL 942. Allow it to cure for minimum 24 hours.

- Seal the joint of parapet wall and roof slab as fillet seal with polysulphide sealant techseal RDL-940 and primer RDL-942. allow the sealant to cure form minimum 24 hours.
- Apply 1 coat of Techoxy coating as a primer. Being water based it penetrates into concrete, seals porosity, micro devices, hardens and waterproofs the surfaces. Allow it to dry for minimum 10-12 hours.
- Apply 2 coats of Techcoat at an interval of 6 hours. Allow the entire waterproofing system to cure for minimum 72 hours before checking leakage test

VERTICAL WALLS AND CHAJJAS (EXTERNALLY)

Normally system used for roof terraces may be applied. For less problematic surfaces, seal the cracks with one coat of Techoxy-3 followed by 1 coat of Techcoat.

MILD STEEL, GALVANIZED AND ALUMINIUM WATER TANKS (EXTERNALLY)

Remove rusty scales by high sandblasting / sanding with emery paper / wire brushing. Wipe the surface with solvent (xylene /toluene/ acetone etc) soaked cloth.

- On mild surface apply 1-2 coats of epoxy primer, apply 2 coats of Techcoat.
- On aluminium /galvanized surface, apply 1-2 coats of polyvinyl butyl based wash primer and then apply 1-2 coats of Techcoat.

CLEANING OF TOOLS AND EQUIPMENTS

Tools and equipments should be cleaned with xylene, toluene, or acetone solvents.

STORAGE AND SHELF LIFE.

12 moths from date of mfg. at a temp of +10^{0}C to +35^{0}C. materials must be consumed once the containers are opened.

PRECAUTIONS

While application proper ventilation should be provided. Avoid application in damp conditions. It will create blister.

PACKING

1ltr., 4ltr., 20 liters.