

High Build High Solid Coal Tar Epoxy Coating

DESCRIPTION

TIKI ECT is two-component high build Coal Tar Epoxy coating use for the protection of steel and concrete structures. The high solid content of the product allows for application @300 microns D.F.T in single coat imparting excellent chemical and corrosion resistance to the surface.

USES

- Protection of R.C.C and steel surfaces subjected to continuous water immersion or exposed to marine environment or sub soil conditions.
- Protection of underground pipelines.
- Protection of crest gates, sluice gates, penstocks, under water structures, water tanks and pipelines carrying non-potable water.
- Protection of building foundations from ingress of chlorides and sulphates.
- Protection of jetties, piers, docks, sewage tanks, effluent tanks, channels, drilling rigs etc.

ADVANTAGES

- Provides long-term protection to steel & concrete surfaces against corrosion.
- Good adhesion to most substrates.
- Good chemical, abrasion & corrosion resistance.
- High build coat in single application.
- Forms tough and durable protective coating.
- It can be used in Cathode protection systems.
- Resistance to micro-organisms.

CHEMICAL RESISTANCE

Sea water	Excellent
Exhaust and Sewage gases	Good
Effluent water	Excellent
Toluene	Good
Water	Excellent
Brine Solution	Excellent
Vegetable oils	Excellent
Sewage conditions	Excellent

PROPERTIES

PROPERTIES	VALUES
Mix Ratio Component-A : Component B	As per Combo Kit
Mix Density (ASTM D1475)	1.40 ± 0.05 gm/ml
Mix Solids (ASTM D2697)	≥95 % by Volume ≥96 % by Weight
Pot Life (ASTM D2471)	≈ 90 Minutes
Abrasion Resistance (ASTM D4060) CS17/1000 Cycles/1Kg.	≈90 mg loss
Full Cure	14 days
Bond Strength (ASTM D4541) (Cohesion failure at concrete)	≥1.5MPa
Theoretical Coverage @ 300 microns d.f.t**	3.20 to 3.30 m ² /Ltr. 2.20 to 2.45 m ² /Kg.

** Coverage is approximate and depends on the site conditions, substrate porosity & method used for application. We recommend to carry site trial to establish actual coverage of material.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces to be coated must be dry, clean and sound free from cracks, loose rust, oil, grease, dust, and mould release agents, curing compounds, rising dampness or any other form of contamination that may affect the adhesion of the coating.

New concrete should be at least 28 days old with moisture content <4%.

Abrasive blast the steel surfaces to a white metal / commercial finishes in accordance to a degree of cleanliness to obtain a 50-75 micron blast profile.

The surface temperature should be 3°C above dew point during application. Do not apply when surface temperature is below 10°C or above 50°C or when the humidity is >75%.

APPLICTAION

TIKI ECT is supplied as two components ready to use at site. Prior to mixing, the contents of the Resin component should be thoroughly stirred to disperse possible settlement.

The components of **TIKI ECT** shall be mixed by taking the Component-A in a clean container followed by addition and gradual mixing of Component-B using electric stirrer to achieve homogeneous mix.

Mixing should be carried out continuously for 3 to 5 minutes, until a uniform consistency is achieved.

The prepared mix is applied to well prepared clean and dry surface by medium brittle brush or medium nap phenolic core roller or airless spray ensuring full coverage.

On irregular surfaces, coat the edges first making an extra pass later.

In case of multiple coat application, the previous coat should be allowed to dry for 8 to 12 hours before application of the subsequent coat.

CLEANING

Immediately after application of **TIKI ECT**, use suitable solvent for cleaning application tools.

SUPPLY

TIKI ECT is supplied in available kit sizes in combo pack consisting of Component–A and Component-B.

STORAGE

Store under the covered shed, out of direct sunlight and protect from extremes of temperature and humidity. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. The shelf life is 12 months in sealed unopened container

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **TIKI ECT**.

Avoid contact with skin and eyes and prolonged inhalation of vapors. Adequate ventilation should be ensured during application of product and if working in enclosed areas, wear suitable breathing apparatus.

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