

Corrosion Protection of Metal Installation

Application by ProCoat Specialities Pvt. Ltd.

ThistleBond

A Division of E. Wood Ltd., U.K.



Problem

Sub-stations located at coastal areas, near chemical factories, humidity environments faces problem of corrosion / rust of metal structures like transformers, over-head support installations, poles and metal channels. Saline salts, chlorine, humidity and temperature present in the atmosphere affect ferrous (even galvanized) structures and reacts with it to form ferrous oxide. This slow chemical reaction first formed as rust over a period of time makes metal corrode and comes out as flakes thereby weakening the installation. This typical problem is noticed in many substations near coastal belt, and those near polluted areas. The pole structures of transmission line in forest / hill areas & distribution line towers mainly gets corroded at base area which results in reduction of mechanical strength of towers / poles.

ProCoat Specialities with ThistleBond Hycote '152 SFE' provides a solution to control and further protect against rust & corrosion effect on metal structures.



Product : Hycote 152 SFE

Hycote '152 SFE' is a high performance solvent free high build system designed with special blend of polymer resins and polyamino-amide curing system reinforced with inert pigments and inorganic fillers to produce a coating with good physical properties and corrosion resistance together with a high tolerance to manually prepared surfaces. Hycote '152 SFE' has an exceptional humidity & salt fog resistance.

Corrosion Resistance of Hycote '152 SFE'

Hycote '152 SFE' has successfully passed accelerated salt fog test for 10,000 Hours as per ASTM B117 standard. This outstanding resistance to chemical corrosion will effectively protect metal structures for many years even under aggressive working conditions.

Humidity Resistance of Hycote '152 SFE'

Hycote '152 SFE' has a Humidity Resistance of 5000 Hours as per BS3900 Part F2 standard. This coating will prevent ingress of moisture / water molecules thereby protecting the surface of transmission towers located in hill or coastal areas.

Surface Preparation

Steel / galvanized steel / already painted mechanical installations can be cleaned by mechanical means like emery by using 180 grade emery paper. Surface can also be prepared by wire brushing, grinding or high pressure water cleaning to achieve manual prepared surface to Swedish Standard St2-St3.

Mixing

Hycote '152 SFE' supplied in two component system, resin & hardener to be mixed in 3:1 ratio until single colour liquid appears.



Application

Mixed Hycote '152 SFE' can be applied to prepared surfaces by good bristle brush or roller in a single coat application mode. It adheres to substrate effectively without any air entrapment as Hycote '152 SFE' is a solvent free polymer system.

PHYSICAL PROPERTIES

Usable Life	50 Minutes
Touch Dry	12 Hours
Hard Dry	16 Days
Temperature Resistance	250 °C

CHEMICAL RESISTANCE (unaffected by total immersion)

Acetic Acid 0-10%	Good
Hydrochloric Acid 0-20%	Excellent
Phosphoric Acid < 75%	Satisfactory
Nitric Acid 0-10%	Excellent
Sodium Hydroxide	Excellent
Nitrous Acid Dilute	Excellent
Sulfuric Acid 0-20%	Excellent
Sulphur Dioxide Wet	Excellent
Hydrofluoric Acid 10%	Satisfactory
Chlorine	Satisfactory
Sea Water	Excellent

Hycote '152 SFE' is manufactured to the standards of ISO 9002. This product is certified by Prestigious Lloyd's Register of Shipping, London in Corrosion Protection Category of Saline & Chemical conditions.

Distributor catering to your needs



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