

CALISTO RUST CONVERTER (CRC)

DESCRIPTION

Calisto Rust Converter (CRC) is a high performance co-ordinator polymer, water based for conversion of rust and then protection of metal from rusting. In fact it is a converter and protector. Rust Converter constituents work in two aspects. In the first aspect, on application of the product to the surface of iron, the rust is converted into an organometallic complex and gets passivated. In the second aspect an elastomeric Co-polymer with cross-linking compounds form a film which is impermeable to air moisture. These two aspects stop the process of rusting of iron by converting and protecting. Depending upon the degree of rusting of the iron surface, on application of the product, the resultant product gives rise to Black, or Grey film with iron lower oxide and Brown film with Iron higher oxide. In the first stage the product gives conversion and in the last stages the product gives protection and stability against corrosion.

APPLICATION

A simple surface preparation is carried out by removing as far as possible the flaky and loose rust, old paint by the use of a wire brush. The loose particles on the surface are then removed by the compressed air or water wash. This is important because any loose particle on the surface is poison to adhesion. Grease and oil are removed by a detergent wash followed by a water wash. Do not remove all traces of rust since it can be converted. In CRC application transfer a small portion from the original container. This will prevent contamination of the product. CRC is an under coat and accepts all types of Top Coats like enamel epoxy polyurethane, polyester etc.

PROCESS OF SURFACE PREPARATION

A wire brush is used to remove the loose and flaky rust from the surface of iron. This process is carried out effectively then most of the fourth and fifth stages i.e. oxides will be removed. It is very necessary that the intermediary stage that is hydroxide should remain on the surface for chemical reaction with the product to give excellent bonding. The product should not be used on smooth non-rusted, milscale, oily and greasy surface.

USES

Automobile Industry, locomotives and Railways, Shipping Industry, steel plants, industrial Fabrications, Chemical Plants and Structures, Soap Detergent Industry, Metal Fabrication like Cupboards Tables, Chairs, Fans Refrigerators, Air conditioners and other electrical product. Building Constructions-RCC Structure Water Proofing, Advertisements Hoardings. ONGC installation of Petroleum and Petrochemical industries, Port and Docks, Bridges and Dams practically all types of industries where the problem of rusting of iron is present.

GRADES

USE FOR

- | | |
|------------------------------------|---|
| Rust Converter: (Commercial Grade) | - CRC (C) low corrosion areas, deformed bas in construction |
| Rust Converter: (Industrial Grade) | - CRC (I) moderate resistance, industrial fabrication |
| Rust Converter: (Marine Grade) | - CRC (M) heavy corrosion resistance, coastal areas |

TECHNICAL INFORMATION

Appearance	CRC (C) Pale Yellow CRC (I) Pale Brown CRC (M) Pale Grey Semi Thick
Specific Gravity	1 gm per cc
Viscosity	Thick (on application of pressure become thin)
PH	Neutral 6-7
Fire Hazard	Non-Inflammable, as Water Based
Toxicity	Non-Toxic (Italab Certificate)
Storage	Store between 5° to 50°C. 3 years.
Shelf Life	3 Years
Thinner	Water, Direct use is Recommended
Area Coverage (all grades) (on plain surface)	150 sq ft per kg... say 14 sq. m per Ltr
Application	Should not be applied to metal below 5°C or above 50°C
Drying Timer	Touch Dry. Summer 15 mins, Winter 45 mins, between coats Summer 1 Hour Winter 2 hours.
Dry Film Thickness	25 microns per coat.
Chemical Resistance	Resistant to acid and alkalies in moderate concentration
Pull out test for R.C.C.	Coating does not affect pull out strength (VJIT Certificate)
Adhesive Test	Passes
Scratch Test	Passes 1000 gm.
Resistant to Temperature	Coating stands 250°C
Water Immersion Test & Salt Spry Test	300 Hours-Commercial Grade 400 Hours-Industrial Grade 500 Hours-Marine Grade
IS:13515:1992	Passes (UDCT Certificate)

PACKING

1kg, 5 kgs, 30 kgs. net in, plastic cans and HDPE car buoys

CAUTION: Please do not apply RUST CONVERTERS on any areas where Red oxide or Metal Primers are applied. It is essential that the Rust converters are applied directly on bare or rusty surfaces.

GRADES	Immersion Test	Salt Spry Test	UV Resistance	Anti Fouling
CRC (C)	300 Hours	300 Hours	-	-
CRC (I)	400 Hours	400 Hours	Yes	-
CRC (M)	500 Hours	500 Hours	Yes	Yes

100 Hours salt spray resistance equals 1 year protection against it.

***These properties are required for ships only.**

EDGE OVER INTERNATIONAL PRODUCTS

- All market rust convertors are acidic pH2, whereas CRC is neutral pH 6 to 7. This has a great advantage since neutral pH will not support rusting
- All market rust convertors' shelf life is only 1 year, whereas CRC shelf life is in excess of 3 years. This is also due to neutral pH
- All market rust convertors are free flowing, whereas CRC is thixotropic, that is on application of pressure it thins otherwise it is thick. Greatest advantage is that CRC does not separate on storage, so no need to stir before use. Secondly CRC does not leak from the container. Thirdly CRC does not spurt on application.

All market rust convertors use synthetic anti-oxidants, whereas CRC uses natural antioxidant which is eco-friendly.

MANUFACTURED BY



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