

FEATURES

: TOA RUST CONVERTER is a water-based air drying synthetic polymer designed specifically for protection of steel surface.

It is a film forming material that chemically converts rust into a black inert non-corrosive iron complex.

: As a primer rust preventing on rusted steel surface where minimum surface preparation (Scraping and wire brushing) is practical. Not for immersion service.

: Reduces surface preparation

: Easy application, lower odor and fast dry

: No contained lead and mercury.

: Safety health for user and tenant.

: Excellent Adhesion

: Non-flammable

: Topcoats with alkyd paint

: TOA RUST CONVERTER provides two step protection in one application

First, it converts tightly adherent rust into a non-rusting black film.

Complexation, Reaction with metal ions in / on the surface.

Organic molecules act on anode sites.

Co-ordination complexes block access of oxygen and water to anode and cathode sites.)

Second, it provides corrosion protection against new rust forming.

Adsorption, Organic material physically adheres to the surface and blocks access of oxygen and water to anode and cathode sites.

TECHNICAL INFORMATION

Type	: Rust Converter Paint
Color	: Color Milky, Off-white Solution. After application, color change to turquoise and dries silver grey / black, semi-gloss finish
Film appearance	: Matt
Specific gravity	: 1.40 ± 0.02
Solid by volume	: 43 ± 2%
Flash point	: Not Flammable

		Minimum	Maximum	Recommended
Dry film thickness	(Microns)	30	60	30
Wet film thickness	(Microns)	70	140	70
Theoretical coverage.	m ² / Liter	14.3	7.2	14.3
	m ² / Gallon	54.3	27.1	54.3
Practical coverage.	m ² / Liter	13.0	6.5	13.0
	m ² / Gallon	48.8	24.4	48.8

Remark : Actual Surface coverage will depend on surface irregularities, Mixing, Application Condition method and technique; as well as the structure and dimensions of the object to be coated.

	Temperature	25 °C	30 °C	35 °C
Touch dry	Surface dry	20 mins	18 mins	15 mins
Recoat dry	Hard dry	3 hrs.	3 hrs.	3 hrs.
Full cure	Minimum	3 hrs.	3 hrs.	3 hrs.
	Maximum	-	-	-

Remark : Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

APPLICATION

Mixing Ratio	Part A	Part B	
By Volume	1	-	
By Weight	1	-	
Application Method	Airless Spray	Air Spray	Brush / Roller
Diluted by	5-10	5-10	5-10
WATER			
Applicator	Graco 419	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley)
	Graco 421		Stiff Nylon Brush
Pressure	120-180 kg/cm ²	3-4 kg/cm ²	-

Mix Part A and Part B, strictly follow mix ratio recommendations before dilute by Thinner mixing and stir for 2-3 minutes until the mixture is homogeneous after leave 5 minutes before application.

APPLICATION INFORMATION

Surface Preparation

Steel

Remover all oil, grease, dirt, oxide and other foreign material.

High Quality

: Should be blast cleaned in accordance with NACE No.2 / SSPC-SP10 / ISO 8501:1 / SIS Sa 2.5 to a near-white finish using a suitable abrasive.

Medium Quality

: Treatment by using Power tool cleaning in accordance with SIS St 3 or SSPC-SP3 .

Remark : The surface must be thoroughly dry and apply the protective coating within 4 hours to cleaned surface.

Before Recoat by Topcoat

: Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.

: If over 7 days gives cleaning surface by sand paper no. 320-400 and cleaning surface per SSPC-SP1, Solvent Cleaning before coating.

Coating System

Protective Coating

: Primer	TOA Rust Converter	30 microns x 1 coat
: Primer	TOA Metal Primer Series	40 microns x 2 coats
: Topcoat	TOA Glipton	40 microns x 2 coats

Recommendation

: The proper relative humidity in the work shall not exceed 85% RH.

: The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air , temperature and relative humidity measured in the vicinity of the substrate for prevent moisture and water drop on substrate effective adhesion and drying time.

HANDLING AND STORAGE

Storage condition

: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Shelf life

: 24 months at 30-35 °C

Package

Packaging size

1 Gallon Set

1 Gallon

HEALTH AND SAFETY



: Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

: For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Safety Data Sheet.

DISCLAIMER

: The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything only the quality of the product itself. We reserve the right to change the given data without notice.