

PREBOND-110 (Rust Converter Chemical)



★ **PRODUCT NAME: PREBOND-110 (Rust Converter Chemical)**

Clear Name: Effective & Economic Anti Corrosive & Surface Preparation Chemical for Rusted Metal Surface

★ **PRODUCT DESCRIPTION: PREBOND-110** is a next-generation, single-component, water-based rust converter primer developed for maintenance and corrosion protection of rusted steel surfaces. Using advanced tannic-acid conversion technology, it reacts chemically with iron oxide (rust) to form a stable iron tannate phosphate layer, producing a compact black protective film. This converted layer acts as both a rust stabilizer and primer, providing an excellent foundation for subsequent protective coatings while significantly reducing surface preparation cost and downtime.

★ **WHY CHOOSE PREBOND-110:**

- Ready-to-use formulation with no mixing, hardener or thinner.
- Eliminates costly sand-blasting in many maintenance applications.
- Converts existing rust into a chemically stable anti-corrosive layer.
- Excellent adhesion to rusted metals surfaces and weathered surfaces.
- Minimizes labour cost, application cost, time and yearly maintenance cost.
- Provides temporary corrosion protection for 06*–08* months without top coating.
- Extends coating life by an additional 03* years more when overcoated with PREBOND-220 (Anti Corrosive Paint).

★ **PHYSICAL PROPERTIES:**

Property	Value
Appearance	Black Liquid
Chemistry	Tannic Acid with Silicone Additives
Components	Single Component Ready to Use
Viscosity	25±2 seconds
Coating thickness	Below 10 um micron DFT depend upon the rust
Drying Time	Approx. 60 Minutes Air Dry, Complete Dry-12 Hours
Water, Chemical Fumes Resistant	Excellent (after 48 hours)
Weather, U/v Resistant	Excellent (after 48 hours)
Coverage	120–150 Sq. Ft. area in per liter single
Recommended coat	Apply 01 coat for better result (Apply 2 nd coat where required)

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★ RECOMMENDED USES:

- Fabricated steel structures • Pipe racks • Storage tanks • Factory sheds • Towers • Machinery • Beams • Machinery
- Channels • Angles • Gratings • Conveyors • TMT-rebars • Marine structures • Maintenance painting • Pipelines etc.

★ APPLICATIONS: By using Brush / Roller / Air Spray / Airless Spray

★ STANDARD APPLICATION SYSTEM:

1. Remove only loose rust, dust and flaky scale using a wire brush.
2. Apply one uniform coat of **PREBOND-110** directly on the rusted surface.
3. Allow the converted coating to dry for at least 12 hours (overnight preferred).
4. For long-term corrosion resistant, apply two-coats of **PREBOND-220-Si-PU (Anti Corrosive Paint)**.
5. The complete coating system provides long-lasting corrosion protection even under aggressive industrial conditions.

★ ADVANTAGES: **PREBOND-110** offers a practical maintenance solution by converting rust, reducing surface preparation, improving coating adhesion and extending the service life of rusted steel structures. It is especially suitable for where complete rust removal, surface preparation for painting or sand-blasting is very difficult or uneconomical.

★ PACKING & STORAGE: 05 & 20 liters plastic drum.



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PREBOND-110 – Rust Converter Chemical

Rust Converter Chemical

Effective & Economic Anti Corrosive & Surface Preparation Chemical for Rusted Metal Surface

Product Overview

PREBOND-110 is a tannic acid-based rust converter chemical, formulated as a single-component, ready-to-use, water based rust converter for heavily rusted metal surfaces. It chemically converts rust (iron oxide) into a durable iron-tannate phosphate coating, providing long-term internal corrosion protection where surface preparation by grinding or sandblasting is impractical or expensive.

As a water based rust converter, PREBOND-110 is well suited to marine environments, automotive chassis and heavily corroded industrial equipment, offering a reliable way to treat rust without sandblasting while creating a stable base for future painting. It also performs well as a marine rust converter spray on structures exposed to salt water and constant moisture.

PREBOND-110 works as an effective chassis rust converter paint for vehicle underbodies, and is equally suited to structural steel, storage tanks, pipelines and general heavily rusted metal surfaces across industrial, marine and automotive applications where reliable rust conversion and corrosion protection are required.

Key Benefits

Rust converter chemical for surfaces where rust removal or sand-blasting is impractical or expensive

Tannic acid rust converter that chemically transforms iron oxide into a stable iron-tannate coating

Extends protection for 02*-03* years in highly-corrosive areas after painting

Protects metal surfaces from further rusting for 05*-06* months without paint

Suitable as a water based rust converter for marine, automotive and industrial applications

Provides a reliable, cost-effective solution for corrosion protection and surface preparation challenges

Physical Properties

Color	Black
Coverage	10-12 Sq. Mtr. area in per liter
Viscosity	25±2 seconds
Drying Time	Touch Dry 60 Minutes, Hard Dry 12 hours
Finish	After application provides dark black coating
Coating thickness	Below 10 um micron DFT depend upon the rust
Flexibility	passed OT bend test
Scratch Resistant	Excellent

Adhesion by cross hatch method	100% passed
Water, chemical Resistant	Excellent (after 48 hours)
U/v, weather resistant	Excellent without cracking of protective film
Flammability	Non-flammable
Method of Application	Normal brush, roller & spray
Recommended coat	Apply 01 coat for better result (Apply 2nd coat where required
Surface Preparation	Clean the heavy/loose rust scale & dust by using wire-brush
Shelf Life	12 Months in air tight container
Packing & Storage	05 & 20 Liters in Plastic Can/Drum

Applications of PREBOND-110 Rust Converter Chemical

Marine Structures

Marine rust converter spray protection for vessels and structures exposed to salt water.

Automotive Chassis

Chassis rust converter paint for vehicle underbodies and heavily corroded components.

Heavily Rusted Machinery

Treats rust without sandblasting on machinery where mechanical rust removal is impractical.

Storage Tanks

Rust converter chemical protection for tanks affected by long-term corrosion.

Structural Steel

Converts surface rust on structural steel before painting or further protective coating.

Industrial Pipelines

Water based rust converter suited to pipelines exposed to moisture and corrosion.

Agricultural Equipment

Cost-effective corrosion treatment for rusted farm and outdoor equipment.

General Rusted Metal Surfaces

Suitable for any heavily rusted metal surface requiring reliable surface preparation.

Product Gallery

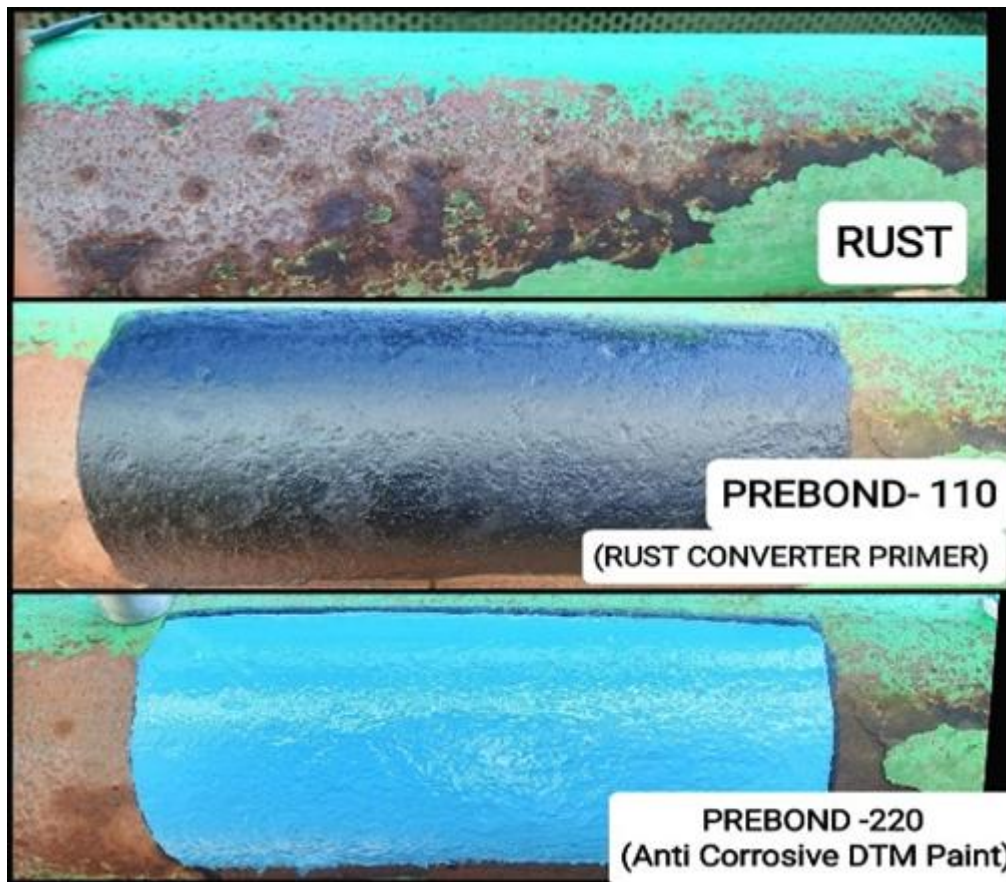


Before Application



**After Application
PREBOND-110 (Rust
Converter Chemical)**





Frequently Asked Questions

What is PREBOND-110 used for?

PREBOND-110 is a rust converter chemical used to chemically convert rust on heavily corroded metal surfaces into a stable, protective iron-tannate coating, especially where sandblasting or mechanical rust removal is impractical.

Can you paint directly over PREBOND-110?

Yes. PREBOND-110 creates a stable surface that is designed to be painted over, extending protection for 2-3 years in highly corrosive areas once a compatible topcoat is applied.

How long does PREBOND-110 last without paint?

PREBOND-110 protects treated metal surfaces from further rusting for approximately 05*-06* months even without a topcoat applied.