

PREBOND-CR (Ceramic Metal Primer)



★ **PRODUCT NAME: PREBOND-CR (Ceramic Metal Primer)**

Clear Name: High-build Strong Acid, Alkali Fumes & Corrosion Resistant Anti Flash Rust Ceramic Metal Primer

★ **PRODUCT DESCRIPTION:** PREBOND-CR is a premium quality, single-component, ready-to-use, high-build ceramic metal primer developed using Silicone Modified Polyurethane (Si-PU) polymer technology with nano-ceramic pigments. It provides outstanding resistance against strong acids, alkalis fumes, moisture, salt water, corrosion and flash rusting. It delivers excellent adhesion to metals and RCC substrates, creating a durable protective barrier that enhances topcoat performance and extends coating life in highly-corrosive industrial (C-I) and marine (C-5) environments.

★ **KEY BENEFITES:**

- Provides a smooth and uniform surface for topcoat application.
- Ideal for chemical processing industries, marine structures and heavy industrial equipment.
- Fast drying and fast curing with excellent resistance to acid, alkali, moisture, salt water and corrosion.
- Provides excellent rust converting property, without compromising paint adhesion or risking paint scale peeling.

★ **FILM PROPERTIES:**

Property	Specification
Colour	Brown
Coverage	07–08 Sq. Mtr. area in per liter
Dry Film Thickness (DFT)	60–75 μ m micron DFT in per coat
Viscosity	95 $\pm$ 5 Seconds
Drying Time	Touch Dry: 10 Minutes Hard Dry: 03 Hours Full Cure: 12 Hours
Finish	Tough, Smooth & Glossy (60+ @30°)
Adhesion	100% Cross Hatch Pass
Flexibility	Passes OT Bend Test
Scratch Resistance	>1000 g
Water & Moisture Resistance	Excellent (water-proof with hydrophobic effect)
Acid & Alkali Fumes Resistance	Excellent (without cracking or chipping of protective film)
Heat Resistance	Up to 200°C
Salt Spray Test	ASTM B117 – 300 + Hours

PREBOND-CR (Ceramic Metal Primer)



★ **SURFACE PREPARATION:** Clean the surface thoroughly before application. Remove loose rust, dust, grease, oil, old flaking coatings and other contaminants to ensure optimum adhesion and long-term performance.

★ **APPLICATION PROCEDURE:**

1. Apply one coat of **PREBOND-Si-PU-CR** (Ceramic Metal Primer) & allow recoating interval of 06-12 hour.
2. Apply one coat of **PREBOND-Si-PU-220** (Anti Corrosive Paint) for long-term chemical corrosion resistant.

★ **PERFORMANCE & DURABILITY:**

- Strong adhesion on all types metal and RCC/concrete surfaces.
- Non-Corrosive Environments: Minimum 04*-05* years more protection.
- In Highly-Corrosive Environments: Minimum 02*-03* years more protection.
- Reduces overall maintenance, repair and repainting expenses by extending service life.

★ **KEY ADVANTAGES:**

- Hassle-free application with no wastages.
- No mixing ratio errors, no hardener required.
- Easy application by skilled or semi-skilled labours.
- Cost-effective alternative to conventional multi-component coating systems.
- Specially engineered for highly aggressive C5-I (Industrial) and C5-M (Marine) corrosive-environments.
- Suitable for structural steel, industrial plants, fabrication, tanks, pipelines, machinery and metal infrastructure.

★ **PACKING & STORAGE:** 20 liters in printed mild steel drum.



For, more any other technical details of the products & our services, please contact us. +91-9011926733, +91-9307742241

alexindia20@gmail.com, www.acidresistantpaint.com, www.alexindia.in

PREBOND-CR – Ceramic Metal Primer

Ceramic Metal Primer

Acid Resistant Metal Primer for Industrial Steel Surfaces

Product Overview

PREBOND-CR is a ceramic metal primer developed for industrial metal surfaces that require excellent adhesion and long-term corrosion protection before topcoat application. Formulated with a silicone-modified polymer and nano-ceramic pigment base, it acts as a single coat rust inhibiting primer that strengthens the bond between the primer and the metal substrate.

As an acid resistant metal primer, PREBOND-CR is built to perform in demanding industrial environments where metal surfaces are exposed to moisture, chemicals and other corrosive conditions, while maintaining strong primer performance. Its anti flash rust formulation also helps prevent flash rust on steel between surface preparation and coating, making it a dependable option among primers built for highly corrosive environments.

PREBOND-CR is suitable for steel structures, fabricated components, machinery and industrial equipment that require reliable primer performance before protective coatings are applied, including surfaces such as mild steel that have been properly prepared ahead of compatible topcoats.

Key Benefits

Ceramic metal primer technology built on a silicone-modified polymer and nano-ceramic pigment base

Excellent adhesion on steel with a smooth, even surface for topcoat application

Acid resistant metal primer suited to chemical processing industries and marine sectors

Durable industrial primer coating that is fast-drying and fast-curing

Suitable for corrosive industrial environments, including moisture and salt-water exposure

Functions as a single coat rust inhibiting primer without compromising paint adhesion

Reliable protection before topcoat application, helping prevent flash rust on steel

Long-lasting industrial performance across demanding, highly corrosive environments

Physical Properties

Colour	Grey & Brown
Coverage	07-08 Sq. Mtr. area in per liter
Dry Film Thickness (DFT)	50-60 um DFT microns per coat
Viscosity	95±5 seconds
Drying Time (air dry)	Touch Dry 15 minutes Hard Dry 03 hours Full Cure 12 hours
Flammability	Flammable
Finish	Tough, Glossy and smooth Finish up-to 60+ @ 30 deg

Adhesion (by cross hatch method)	Excellent Pass 100%
Flexibility	Passes OT bend test
Scratch	1000 gms more in single coat
Water, Moisture Resistance	Excellent (water-proof without early gloss colour retention)
Acid, Alkali Fumes Resistant	Excellent (without cracking or chipping of protective film)
Salt Spray test (ASTM B117)	Passes the test (300 hours more in 01 coat application)
Packing & Storage	20 Liters in printed mild steel drum

Applications of PREBOND-CR Ceramic Metal Primer

Steel Structures

Ceramic metal primer protection for structural steel before topcoat application.

Fabricated Metal Components

Excellent adhesion and rust inhibiting protection for fabricated parts.

Industrial Machinery

Durable industrial primer coating for machinery exposed to demanding conditions.

Chemical Processing Equipment

Acid resistant metal primer suited to equipment in chemical processing plants.

Engineering Components

Reliable primer performance for engineering components before protective coatings.

Storage Tanks

Corrosion protection primer for tanks exposed to moisture and chemical fumes.

Industrial Pipelines

Long-lasting protection for pipelines operating in corrosive industrial environments.

Mild Steel Surfaces

Suitable for properly prepared mild steel surfaces ahead of compatible topcoats.

Frequently Asked Questions

What is PREBOND-CR used for?

PREBOND-CR is a ceramic metal primer used to prepare steel and industrial metal surfaces before protective topcoat application.

Can PREBOND-CR be used on mild steel?

Yes. PREBOND-CR is suitable for properly prepared mild steel surfaces before the application of compatible protective coatings.

Is PREBOND-CR suitable for corrosive industrial environments?

PREBOND-CR is designed for industrial applications where metal surfaces require durable primer performance before exposure to demanding environments.