

**Barrier III**  
**Rust Inhibitive Metal Primer**  
**Alkyd - Off White Primer**

## Description

Barrier III Primers are fast drying, phenolic modified universal alkyd primers. Barrier III was formulated for good weathering characteristics to protect metal in storage, transit or during construction. Use as a tie coat primer to an aged alkyd enamel to upgrade to a more high performance topcoat or top-coat with a variety of finish coats including, alkyds, epoxies, most coal tars, chlorinated rubber, emulsions and polyurethanes.

## Coating Properties

Coating Category	Modified Alkyd
Package Size	Available in one gallon and five gallon cans.
Mix Ratio	N/A
Viscosity (Mixed) - KU	70 - 75 KU's
Recommended Film Thickness	Actual coverage will vary depending on substrate and application method. Please contact your Sales Representative for specific project recommendations.
Wet	4.0 - 6.0 mils
Dry	1.5 - 2.0 mils

## Coverage Information

Mixed Volume Solids May vary by Base / Color	37%
Theoretical Coverage	1.0 mil dry film thickness is 601 sq ft per gallon. Actual coverage may vary depending on substrate and application methods.
Applied Coverage	An application rate of 321 feet <sup>2</sup> /gallon should produce 1.5 mils DFT (This allows for 20% loss)
Pot Life (at 50% RH)	N/A
Shelf Life	minimum of two years when stored in unopened cans at 70 degrees F.
Induction Time	Not applicable to this single component coating.
Gloss	0 to 15
Sheen	Satin

## Approvals / Certifications

Conforms to AWS D1.1  
Weldability testing as a weldable primer at thickness less than 2 mil DFT

## Markets / End-Uses

- Storage Tank Exteriors
- Structural Steel
- Commercial Transport
- Dry Goods Containers
- Metal Refuse Containers

## Substrates

Ferrous Metals

## Bases / VOCs (g/L)

708001/Off White Primer	- 543 g/L
708095/Red Oxide	- 543 g/L
708099/Black	- 543 g/L
708098/Gray	- 543 g/L

## Product Weight

10.60 lb per gallon

## Tint Type

Industrial Tinting Colorant

## Substrates and Surface Preparation

**Pre-Painted Surfaces:** Wash with a mild detergent and water solution. Rinse thoroughly, allow to dry, and then, if needed due to a glossy or hard smooth surface: scuff sand using 80 to 120 grit sandpaper on a hand sander. Remove all sanding dust.

**Ferrous Metal:** Clean metal of any contaminants by pressure washing or solvent wiping per SSPC-SP-1. As a minimum power tool clean the metal per SSPC-SP-3 being careful not to polish the metal. The metal surface should have a profile for the paint to mechanically bond to. Better performance is always achieved with an abrasive blast to a minimum of SSPC-SP-6 Commercial Blast.

**WARNING!** If you scrape, sand or remove old paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information on surfaces that may contain lead paint, contact the U.S. EPA / Lead Information Hotline at 1-800-424-LEAD (5323).

## Methods of Application

### Application Parameters

Relative Humidity	90%
Minimum Temperature	40F
Maximum Temperature	100F
Continuous:	175F
Intermittent:	225F
Application Comment	<p><b>THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY</b></p> <p>Due to the quick drying nature of this primer a brush or roller can only be used in small areas such as over welds or edges as part of a stripe coat.</p> <p>Using 799249/Synthetic Enamel Flow Thinner will slow down the evaporation rate and aid in brush and roller application.</p>
Technical Notes	<p>At 77°F. and 50% relative humidity:</p> <ul style="list-style-type: none"> <li>- Dry time to touch is 30 minutes.</li> <li>- Dry time to recoat with a quick dry enamel is 1 hour.</li> </ul> <p><b><u>If planning on top-coating Barrier III primer with a 2 part epoxy or urethane wait a minimum of 12 hours before applying a patch test of the top coat on a horizontal surface (where heavier film thicknesses may develop) to check for wrinkling or other possible surface defects created by the strong solvents.</u></b></p>
Performance Tips	<p>Barrier III primer will exhibit good weldability if primer is applied at no more than 3.0 mils wet.</p> <p>On horizontal surfaces and inside corners keep applied wet film thickness at 5.0-6.0 mils to prevent wrinkling when finish coat is applied.</p>

## Reducers

None recommended

## Applicators

- Brush** - Pure Bristle brush;  
Only for small touch up areas
- Roller** - 1/4" to 3/8" nap cover,  
Only for small touch up areas
- Airless Spray** - 2,000 psi Pressure  
.013 - .017 Tip

## Equipment Cleaning

Use the recommended thinner for this paint for clean-up - Synthetic Reducer (799260)

## Drying Times

Dry to Touch/Tack-free - 30 - 60 mins

## Recoat Times – Top Coat with:

Alkyd - **1 hours**  
2-part Epoxy or Polyurethane - **12 hours**  
Water Base Coating - **24 hours**

## **Safety Precautions**

**Safety Precautions:** For detailed information please refer to this product's material safety data sheet. A copy of which may be found at our website: [www.rodmapaint.com](http://www.rodmapaint.com) under Products/Product Data Sheets and MSDS.

**Flammable & Combustible:** *Use only in a well ventilated area. Keep away from potential sources of flames or sparks, such as a pilot light on a furnace or an electric motor. Keep out of reach of children. Materials such as rags that are used with this product may begin to burn by themselves. After using, completely immerse used rags in water or lay them out flat separately to dry and then discard.*

**First Aid:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes. Wash contaminated skin with soap and water. If ingested, call physician or the Poison Control Center immediately.

## **Updates**

Please visit [www.rodmapaint.com](http://www.rodmapaint.com) for the most recent versions of Technical Data Sheets and Material Safety Data Sheets.

## **Recent Amendments**

Check for recent amendments to this data sheet at [www.rodmapaint.com](http://www.rodmapaint.com)

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