Technical Data Sheet
Rev.02.25.2025

401 Growth Parkway
Angola, IN 46703

barilcoatings.us
260-665-8431

Bariline 755

Single Component Epoxy Ester Metal Primer

Description:

Bariline 755 is a high solid single component Epoxy Ester DTM primer available in standard and custom colors. This general-purpose air-dry enamel is used as a self-priming finish coat. Bariline 755 has exceptional application characteristics coupled with fast drying properties and very good corrosion protection in moderate environmental stress as a direct to metal coatings. Though it is mainly designed to be used for interior application, the formula exhibits outstanding adhesion on a wide array of substrates like cold rolled steel, shot blasted steel and galvanized steel. It can be formulated as cold zinc galvanizing as well as weld-through primer to make excellent choice for touch paint.

Advantages:

- High Solids High Build single component epoxy DTM <3.5 VOC
- Easy to apply. In most cases, ready to spray OR requires <10% solvent reduction.
- Suitable for Direct to Metal over moderately prepared surface.
- Contains corrosion inhibitor hence provides great barrier properties.
- Quick dry to handle times.
- Can be modified to cover a wide spectrum of applications.

Uses:

- Tanks
- Structural or Support Steel
- Weathered galvanized
- Cast metal
- Equipment
- Heavy haulers
- Heavy machinery

Material Properties	
Gloss Level	Flat @ 2 mils DFT
Density	11.5 +/- 0.3 lb/gal
Volume Solids	46% +/- 1% as supplied
VOC (EPA Method 24	< 3.5 lb/gal (419.39 g/l)
Dry Film Thickness	1.5-2.0 mils
Pot Life	N/A
Theoretical Coverage	2.0 mils DFT @ 372.6 ft^2/gal.
Temperature Resistance	100 deg F (continuous)
Shelf Life	12 months when stored cool and dry.
Reduction: (if necessary)	Up to 10% with Acetone or Tertiary Butyl Acetate (exempt solvents). Reduction does not increase VOC's.

Recommended Substrate Conditions and Temperature:

- Coating performance is proportional to the degree of surface preparation. Please refer to the application instructions for specific primers and intermediate coats for application and curing procedure. All previous coats must dry and free of contaminants. Please adhere to all minimum and maximum topcoat times for specific primers and intermediate coats.
- For ferrous substrate (old and new) sand/shot blast clean to ISO- Sa 2½ or minimum SSPC SP-6, blasting profile around 1.2-2.5 mils is recommended. Remove the weld spatter, protrusions and laminations in steel before blasting.
- For maintenance and repair in atmospheric service use “Hand or Power Tool Cleaning: (SSPC-SP2 or SP3) is recommended. At minimum, the surface should be clean of all grease, dirt, oil, rust and foreign material that would be detrimental to proper adhesion and desired performance of the coating system being applied.
- For Galvanized steel: Surface must be free from grease, salts and any contamination. Surface should be sufficiently roughened using ice blasting, sand scuffing and/or sweep blasting. Not recommended for aluminum.
- Substrate temperature during application and curing should be at least 10 deg F above dew point. Relative humidity during application and curing should not exceed more than 80%. Premature exposure to early condensation and rain may cause severe impact on the performance of the coating as well as gloss and color.

Topcoat Recommendation:

- Please contact your Baril representative for the suitable topcoat recommendation.

Bariline 755

Single Component Epoxy Ester Metal Primer

Instructions For Use:

- Agitate with a pneumatic air mixing at a moderate speed to homogenize the container. Please note that mixing at a high speed will result in excessive bubble formation. Let material sit for additional 2-3 minutes so that any air-bubble will dissipate.
- The ideal temperature at the time of mixing and application would be 50 deg F or above but not more than 100 deg F. Additional reducer may require if the application is carried out under 50 deg F. Please check with your Baril representative for proper guidelines on recommended thinner. f too much thinner is added, then it will negatively impact the sag resistance.

Air-Spray:

- Nozzle orifice: 1.0-1.5 mm (approx. 0.040-0.060 inch)
- Nozzle pressure: 0.3 – 0.4 MPa (approx. 3-4 bar; 44-58 psi)
- Reduction/Thinner: 0-10% depending on required thickness and application conditions.
- Recommended Thinner:
    - Contact Baril Representative

Airless Spray:

- Nozzle orifice: 0.43-0.48 mm (approx. 0.017-0.019 inch)
- Nozzle pressure: 20 MPa (approx. 200 bar; 2900 psi)
- Reduction/Thinner: 0-5% depending on required thickness and application conditions.
- Recommended Thinner:
    - Contact Baril Representative

Brush/Roller:

- Not recommended

Overcoating interval for DFT up to 2.0 mils.						
Overcoating with	**Interval**	**23 deg F**	**32 deg F**	**50 deg F**	**68 deg F**	**86 deg F**
Itself	Minimum	N/A	N/A	72 hours	48 hours	24 hours
	Maximum	N/A	N/A	7 days	5 days	3 days

Curing Time for DFT up to 2.0 mils.		
Substrate/Atmosphere Temperature	**Dry to touch**	**Dry to handle**
23 deg F + 50-60% relative humidity	N/A	N/A
32 deg F + 50-60% relative humidity	N/A	N/A
50 deg F + 50-60% relative humidity	2 hours	4 hours
68 deg F + 50-60% relative humidity	30-45 minutes	1.5 hours
86 deg F + 50-60% relative humidity	15-30 minutes	1 hour

***Full coating properties are established after 7 days of full curing at room temperature**

Humidity exceeding 70% will impact the curing time. Painting should be avoided if the humidity at the time of application exceeds 85%.

Bariline 755

Single Component Epoxy Ester Metal Primer

Performance Characteristics	
Continuous Water Test: ASTM D870	Passes 500 hours over Bonderite 1000 Steel
Impact (Direct & Indirect): ASTM D2794	N/A
Pencil Hardness: ASTM D3363	Passes H+ No gouges
Adhesion: ASTM D3359	Passes 5B 0% Adhesion failure (Bonderite 1000)
Salt Spray: ASTM B117 (DTM only)	Passes 500 hours over Bonderite 1000 Steel

Cleaning Instructions:

Cleaning tools: Clean immediately after application using MEK or Acetone

Dry Times: 68°F @ 2 mils DFT	
To Touch:	30-45 minutes
To Handle:	1 - 1.5 hours
To Full Cure:	7 days

Health & Environmental:

In accordance with OSHA regulations on hazardous materials, harmful and irritating if in contact with skin, eyes and by inhalation. Observe safety information from SDS sheets. Always wear proper protective suits, gloves and eye protection. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. If spraying, always wear proper NIOSH approved respirators. Fresh air fed respirators are preferred. Do not eat, drink or smoke during application. Discharge, treatment or disposal is subject to federal, state, commonwealth, provincial and local laws. Since empty containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld on or near this container.

Warranty:

The technical data and other printed information furnished are true and accurate to the best of our knowledge. The products are warranted pursuant to acceptance of limited warranty. A copy of which can be obtained from Baril Coatings, which is the exclusive warranty with respect to the sale of this product. The modification of any component or uses not outlined in this bulletin nullifies the warranty unless advance written confirmation is obtained from Baril Coatings. No other warranties expressed or implied shall apply. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, shall be to supply replacement materials as set forth in the limited warranty.

401 Growth Parkway
Angola, IN 46703
www.barilcoatings.us
260-665-8431

Sustainable Coating Solutions

BARIL