

# PolyCoat 2000

High Solids Polyester Modified Acrylic Urethane



## Description:

High Performance, ultra low 3.5 VOC Polyester Modified Acrylic Urethane. This fast drying, high gloss product has been designed to offer excellent long term protection in moderate to severe environments. The formulation of this product is engineered to resist fresh water, salt water, most chemicals, fumes and spills of most solvents, acids and alkalis. Polycoat 2000 is abrasion and moisture resistant. Exceptional color and gloss retention. Polycoat 2000 is an extremely durable high gloss topcoat for primed steel surfaces.

## Advantages:

- Fast cure schedule
- Excellent corrosion resistance
- Superior chemical resistance
- Excellent exterior weathering & gloss retention
- Field applied in a variety of settings

## Uses:

- Heavy-Duty Machinery
- Trailers
- Containers
- Implements
- Exterior Steel Structures

## Surface Preparation:

### **New or Unfinished Surfaces:**

**Ferrous Metal:** For best performance, application to abrasive blasted surface is recommended. "Commercial Blast Cleaning" (SSPC-SP6) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce an

average profile depth of 1.5 mils minimum to 2.5 mils maximum. Do not reuse abrasive media. Remove blasting dust and grit from surfaces before painting. Blasted surfaces should be coated within 8 hours after blasting or before rusting or other contamination of the surface occurs. If blasting is not possible, use "Hand or Power Tool Cleaning: (SSPC-SP2 or -SP3).

**Galvanized Metal:** Clean all contamination by scrubbing with a cleaning soap solution. Rinse clean with water and allow to dry. Prime with SteelKote™ recommended primers prior to using PolyCoat 2000 consult with your Baril technical services representative for more information.

**Aluminum:** Brush blast, sand or abrade surface. Clean all contamination by scrubbing with a with a cleaning soap solution. Rinse clean with water and allow to dry. Otherwise prime with a Wash Primer or etch with a phosphoric acid pretreatment solution is recommended for maximum adhesion. Prime with SteelKote™ recommended primers prior to using PolyCoat 2000; consult with your Baril technical services representative for more information.

**Previously Painted Surfaces:** Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7) Remove any rust, heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning." (SSPC-SP2 or -SP3). If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any or any other sign of incompatibility. If there are no issues, coating work can proceed.

## Mixing Instructions:

Thoroughly mix product, preferably using a mechanical mixing device at a minimum temperature of 45°F. Mix 2 Parts PolyCoat 2000 with 1 Part Activator 902 by volume.

## **Material Properties**

Gloss Level	High Gloss: 95° +
Density	8.72lbs./gal 1.05 kg/ltr mixed
Volume Solids	57% mixed
VOC	3.13 lbs./gal (374 grams/ltr) mixed
Dry Film Thickness	2.0-4.0 mils
Colors Available	RAL Standard & Custom
Pot Life (68°F/20°C)	3-hours mixed
Theoretical Coverage	320 sq.ft./gal. @ 2.0 mils DFT
Practical Coverage	As a guideline for airless spraying on large dimensions: 70% of theoretical coverage. For small dimensions: 50%

## Application Instructions

Spray Method	Airless	Aire Assisted Airless	Air Spray / HVLP
Thinner	MAK	MAK	MAK
Quantity	0 to 10%	0-10%	0-10%
Nozzle or Tip Size	413 - 515	413 - 515	1.4 to 1.6
Fluid Pressure	20-40 PSI	1500 to 3000 PSI	20-40 PSI
Air Pressure	50 PS	50 PSI	45 PSI
Dry Film Thickness	2.0-4.0 Mils	2.0-4.0 Mils	2.0 to 4.0 Mils

## Performance Characteristics

Accelerated Weathering: ISO11507 / ASTM G 154 ISO 2813 / ASTM D523	3500 hours gloss retention @ 60° > 80%
Salt Spray ASTM B-117	pass 500 hours
Impact (direct & indirect) ASTM D-2794	160 in. lbs direct 80 in. lbs indirect
Flexibility ASTM D-522 Conical Mandrell	no cracking - 1 inch
Chemical Resistance:	200 Double MEK Rubs
Acid Resistance:	Spills: Good ; Fumes: Excellent
Abrasion Resistance: ASTM D4060	Weight Loss: 150mg

### Application Note:

During drying and curing the relative humidity should remain < 80%. Any contact with moisture should be avoided during curing process. Water spillage may cause white spots to appear.

### Cleaning Instructions:

Cleaning tools: Clean immediately after application using MEK or Lacquer Thinner.

### Warranty / Disclaimer:

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.

## Dry Times: 70°F @ 2-4 mils DFT

To Touch:	30-mins
To Handle:	1-hour
To Re-Coat:	1 hour to 24 hours maximum @ 2.0 mils
Force Cure:	Do Not Force Cure

### 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 MSDS 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.