

DualCure 188

Semi Gloss DTM Polyaspartic



U.S. Patents:
6,833,424 & 7,169,876

Description:

DualCure 188 is a unique, high-build, semi-gloss polyaspartic topcoat engineered for direct-to-metal application. Formulated for excellent exterior durability, and superior adhesion to moderately prepared blasted, primed, or e-coated surfaces, it delivers fast cure performance without the need for heat — boosting productivity without sacrificing quality. DualCure 188 provides long-term protection in moderate environments, with resistance to fresh water, salt water, chemical fumes, and mild chemical spills. Abrasion and moisture resistant, the DualCure line represents our most durable, longest-lasting topcoat solution. Recommended for commercial and industrial use on machinery, trailers, containers, implements, structures, and vehicles. No special 2K equipment required, with a user-friendly pot life of 1.5–2.0 hours depending on temperature and humidity.

Advantages:

- Semi Gloss Finish
- Increased Productivity
- 2-Hr Dry Time
- No Heat Cure
- Good Corrosion Resistance
- High Abrasion Resistance
- Long pot life

Uses:

- Heavy-Duty Machinery
- Trailers
- Containers
- Implements
- Exterior Steel
- Vehicles
- Marine

Material Properties

Gloss Level	50-70 units at 60°
Density	10.00 +/- 1.0 lbs/gal mixed
Volume Solids	60% +/- 1% (mixed)
VOC	<3.0 lbs./gal (<350 grams/ltr) mixed
Dry Film Thickness	6.0 - 8.0 mils
Colors Available	Full ColorLinks Spectrum
Pot Life (68°F/20°C)	90-120 minutes
Theoretical Coverage	486 ft ² / gal @ 2.0 mils dry film thickness
Practical Coverage	As a guideline for airless spraying on large dimensions: 70% of theoretical coverage. For small dimensions: 50%

Surface Preparation:

New or Unfinished Surfaces:

Ferrous Metal: Suitable *“Direct to Metal”* application **to commercial blasted surface.**

“Commercial Blast Cleaning” (SSPC-SP6) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce a minimum profile depth of 1.5 mils minimum. 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, a primer is required along with chemical cleaning or pretreatment.

Suitable Primers: SteelKote 825, SteelKote 830, SteelKote 900, DualCure 306

Galvanized Metal: Clean all contamination by scrubbing with a cleaning soap solution. Abrasive Blast and apply DualCure 306 Primer.

Aluminum or Stainless Steel: For best performance, application to abrasive blasted surface is recommended or etch with a phosphoric acid pretreatment solution is recommended for maximum adhesion. Clean all contamination by scrubbing with a cleaning soap solution. Prime with Steelkote 850 Multi Surface Epoxy Primer.

Mixing Instructions:

Thoroughly mix product, preferably using a mechanical mixing device. The temperature of the mixed product should be at least 45°F during application. Mix 2 Parts of DualCure 188 Part A with 1 Parts of ACT-912 Activator.

Application Instructions

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	N/A	MAK	MAK
Quantity	N/A	5-10%	0-10%
Nozzle or Tip Size	0.017-0.022	0.013-0.015	1.4-2.0
Fluid Pressure	2200 - 2600 PSI	1500 PSI	20-30 PSI
Air Pressure	N/A	30 PSI	45 PSI
Dry Film Thickness	>6.0 Mils	>6.0 Mils	>6.0 Mils

Performance Characteristics

Accelerated Weathering: ISO 11507 / ASTM G154 ISO 2813 / ASTM D523	1000 hours gloss retention @ 60° > 80%
Florida Black Box Exposure	N/A
Impact (Direct & Reverse) ASTM D-2794	30 in lbs Direct 10 in lbs Reverse
Chemical Resistance	100 Double MEK Rubs
Flexibility: ISO 1519 / ASTM D522	Cylindrical Mandrel Passes 1/2"
Abrasion Resistance: ASTM D4060	Taber CS-17 / 1kg 400 cycles: 160 mg loss
Salt Spray ASTM B-117	Direct to Blasted Metal Pass 1000 hours

Dry Times: 70°F @ 6 mils DFT

To Touch:	1-hour
To Handle:	2.5-hours
To Re-Coat:	3-hour minimum / 12 hours maximum @ 6.0 mils dry
Force Cure:	Do not force cure, heat will not help product cure faster

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.

Clean Up Instructions:

Cleaning tools: Clean immediately after application using MEK.

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.