

DualCure 182

DTM Aliphatic Polyaspartic Primer



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

Description:

Dual Cure 182 is a patented high performance Direct to Metal primer engineered to provide excellent exterior durability, adhesion and flexibility. This low-sheen protective coating may be applied to blasted surfaces. Dual Cure 182 is a fast curing primer and is designed to enhance productivity without the need for heat for drying. Additionally, this zinc-fortified formulation provides moderate corrosion resistance and protection in ISO 12944-1 (C3 High). It is highly resistant to fresh and salt water, most chemicals, fumes and spills of mild acids and alkalies.

Advantages:

- Superior Adhesion
- Flexibility
- Fast Recoat Times
- Can be used as Single Coat application
- Good Corrosion Resistance
- High Abrasion Resistance

Uses:

- Heavy-Duty Machinery
- Trailers
- Containers
- Implements
- Exterior Steel
- Oil and Gas
- Marine

Material Properties

Gloss Level	50 units @ 60 degrees
Density	11.72 lbs/gal (1.40 kg/ltr) mixed
Volume Solids	67% (mixed)
VOC	1.45 lbs/gal (174 g/l) mixed
Dry Film Thickness	3.5 - 12 mils
Colors Available	Yellow
Pot Life (68°F/20°C)	25 minutes mixed
Theoretical Coverage	179 ft ² / gal @ 5.0 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: For use as a **“Direct to Metal”** 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 a minimum profile depth of 2 mils (50 microns) 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. I

Galvanized Metal: Not intended for use.

Aluminum or Stainless Steel: Not intended for use.

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 3 Parts of DualCure 182 Part A with 1 Part of ACT-967 Activator.

Application Instructions

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	N/A	N/A	MAK
Quantity	N/A	N/A	0-10%
Nozzle or Tip Size	0.011-0.013	0.011-0.013	1.0-1.5
Fluid Pressure	2000 - 3000 PSI	1200 - 1800 PSI	8-11 PSI
Air Pressure	N/A	50 PSI	45 PSI
Dry Film Thickness	3.0 - 6.0 Mils	3.0 - 6.0 Mils	3.0 - 6.0 Mils

Performance Characteristics

Accelerated Weathering: 2000 hours
ASTM D4587 gloss retention > 70%

Florida Black Box Exposure Pass 12 months
minimal gloss loss, over
80% color retention

Impact (Direct) ASTM G-14 80 in lbs

Chemical Resistance 100 Double MEK Rubs

All Direct to Metal corrosion testing was completed on SSPC SP 6
blasted steel panels at a DFT of 6-9 mils

Corrosion Weathering Rating 10 per ASTM D714 for
ASTM D5894, 8 cycles blistering; Rating 10 per ASTM
D610

Salt Spray Direct to Blasted Metal
ASTM B-117 Passes 1000 Hours

Dry Times: 70°F @ 3-5 mils DFT

To Touch: 30 Minutes

To Handle: 1-hour

To Re-Coat: 1-hour minimum / 12 hours
maximum @ 2.5 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.