

SteelKote 167

High Gloss DTM Polyester Urethane

Description:

Extremely versatile and very high Performing, low VOC Polyester Urethane which can be used as a topcoat for Ferrous substrates as well as for Direct to Metal application on Non-Ferrous substrates. This high gloss product has been designed to offer 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. SteelKote167 is abrasion and moisture resistant. This product is a durable high gloss topcoat and is suited for Direct To Metal application on properly prepared surfaces. This product is recommended for commercial, industrial, and marine use on machinery, trailers, containers, implements, structures and vehicles. Applications where excellent color and gloss retention are expected and automotive like finishes are required this product is best suited for it.

Advantages:

- Chip Resistance
- Good Color/Gloss Retention
- Excellent Adhesion
- Flexibility
- Long Working Time
- Good Chemical Resistance
- Fast water spot resistance
- Impact Resistance

Uses:

- Commercial Vehicles
- Machinery
- Trailers
- Implements
- Structures
- Containers

Material Properties

Gloss Level	80° + at 2 mils DFT
Density	9.0 lbs./gal +/- 1 lb/gal (mixed)
Volume Solids	52 +/- 1 % (mixed)
VOC (EPA method 24)	<3.2 lbs./gal. as supplied
Dry Film Thickness	2.0-3.0 mils
Pot Life	3 hours (mixed) @ 68°F / 50% RH Viscosity to double.
Theoretical Coverage	2.0 DFT @ 421 ft ² /gal.
Temperature Resistance	100 deg F (continuous)

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 1.2-3.0 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 and aluminum: Surface must be free from grease, salts and any contamination. Surface should be sufficiently roughened using ice blasting, sand scuffing and/or sweep blasting.
- 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.

Instructions for use:

- Mix Ratio: base to hardener 75:25 (3:1) by volume
- Activator: ACT-099.
- Mix base component 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. Add hardener to the base part under constant agitation. Agitate the mixed components with power agitators for at least 2-3 minutes. 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 90 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. Please note that thinner/reducer must be added after mixing base and hardener. If too much thinner is added, then it will negatively impact the sag resistance.
- Induction time is not necessary.

Primer Recommendation:

- SteelKote 830 Series Primer is 2K Polyamide cured Epoxy primer for moderate to high corrosion resistance.
- SteelKote 829 Series Primer is 2K Organic Zinc Rich Primer series for high to very high corrosion resistance (ISO-12944 C5)
- DualCure 306 is a single or two component moisture cured Urethane Zinc Rich primer for ultra high corrosion and humidity resistance. (ISO-12944 CX)
- Please contact your Baril representative for the suitable primer recommendation.

Application Instructions

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	MAK	MAK	MAK
Quantity	0-10%	0-10%	0-10%
Nozzle or Tip Size	0.011-.013	0.011-.013	1.0-1.5
Fluid Pressure	2000 - 3000 PSI	1000 - 1500 PSI	8-10 PSI
Air Pressure	NA	50 PSI	45 PSI
Dry Film Thickness	2.0-4.0 Mils	2.0-4.0 Mils	2.0-4.0 Mils

Performance Characteristics

Accelerated Weathering: ISO 11507 / ASTM G154 ISO 2813 / ASTM D523	2000 hours gloss retention @ 60° > 80%
Florida Black Box Exposure	N/A
Impact (Direct & Indirect) ASTM D-2794	100 in lbs Direct 80 in lbs Reverse
Chemical Resistance	40 Double MEK Rubs
Flexibility: ISO 1519 / ASTM D522	Cylindrical Mandrel 10mm ISO 1520 Cupping 4-6 mm
Abrasion Resistance: ASTM D4060	Taber CS-17 / 1kg 400 cycles: 200 mg loss

Dry Times: 70°F @ 2 mils DFT

To Touch:	3-hrs.
To Handle:	Overnight
To Re-Coat Interval:	16 hrs. minimum 14 days maximum
Full Cure:	7 days
Shelf Life:	Base: at least 24 months when stored cool and dry. Hardener: at least 18 months when stored cool and dry

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.

Cleaning 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 war-ranted 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.