Technical Data
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SteelKote 160

High Gloss Polyester/Hybrid Polyurethane

Description:

SteelKote 160 is a uniquely engineered high performance finish. Developed to provide excellent exterior durability, high strength, flexibility and superior levelling and DOI. This fast curing coating system offers superior performance and enhanced productivity. Long open times allow for optimal melt in while reducing overspray problems on large surfaces. This high gloss product has been designed to offer excellent long term protection in moderate to severe environments. The formulation of this product will resist fresh water, salt water, most chemicals, fumes and spills of mild acids and alkalis. One of our longest lasting, most durable topcoat finishes, SteelKote 160 is chip resistant and exhibits exceptional color and gloss retention.

Advantages:

- High Chip Resistance
- Excellent Color/Gloss Retention
- Superior Adhesion
- Flexibility
- Long Working Time
- Strong Chemical Resistance
- Excellent Corrosion Resistance
- Superior Impact Resistance

Uses:

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

Material Properties	
Gloss Level	90° + High Gloss
Density	8.92 lbs./gal 1.06 kg/ltr (mixed)
Volume Solids	56% (mixed)
VOC	3.25 lbs./gal. 389 grams/ltr. (mixed)
Dry Film Thickness	1.5-3.0 mils
Pot Life	2- hours (mixed) @ 68°F / 20°C
Theoretical Coverage	2.0 DFT @ 401 ft^2/gal.
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 Topcoat over DualCure 306, SteelKote 825 and SteelKote 900 Primers

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, use "Hand or Power Tool Cleaning: (SSPC-SP2 or -SP3). 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. Use Steelkote or DualCure primers before applying the SteelKote 160.

Galvanized Metal: Use of recommended primer is necessary

Aluminum or Stainless Steel: Prime with SteelKote 850. 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.

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 part SteelKote 160 with 1 part of ACT-097 Activator.

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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	1.0-1.4
Fluid Pressure	2000 - 3000 PSI	700 - 1300 PSI	20-40 PSI
Air Pressure	NA	30 PSI	20-45 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	 3500 hours gloss retention @ 60° > 80%
Florida Black Box Exposure	Pass 48 months < 20% gloss loss, < .5 ΔE color change
Impact (Direct & Indirect) ASTM D-2794	160 in lbs
Chemical Resistance	200 Double MEK Rubs
Flexibility: ISO 1519 / ASTM D522	Cylindrical Mandrel 10mm ISO 1520 Cupping 5-7 mm
Abrasion Resistance: ASTM D4060	Taber CS-17 / 1kg 400 cycles: 150 mg loss

Dry Times: 70°F @ 2-4 mils DFT

To Touch:	90 mins.
To Handle:	2-hrs
To Re-Coat:	10-30 mins. minimum or wait for 6 hrs max (24 hrs) @ 2.5 mils dry
Force Cure:	30 minutes @ 150°F ** Scuffing required after 24-hours*

Cleaning Instructions:

Cleaning tools: Clean immediately after application using MEK.

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 / 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.

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