

SteelKote 557

Two Component High Gloss Acrylic Aliphatic DTM Urethane

Description:

Steelkote 557 is a high solids gloss direct to metal urethane. It is designed be used with airless, air assist, pressure pot or cup gun without the typical problems such as die back or solvent pop. Steelkote 557 has excellent durability against harsh chemicals and UV rays, exhibiting excellent color and gloss retention.

Advantages:

- Low VOC
- Easy to apply by spray, roller and brush
- Excellent color and gloss retention
- Direct to metal application, including tightly adhering rust
- Infinite color capability
- Meets SSPC Paint 36 Level 2
- Contains no organic HAPs

Uses:

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

Surface Preparation:

New or Unfinished Surfaces:

Ferrous and Galvanized Metal:

Remove weld spatter, protrusions and laminations in steel. Remove all surface contaminants, oil and grease in accordance with SSPC SP-1. Blast Cleaning" (SSPC-SP6 or SP-10) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce a minimum profile depth of 1.5-3.0 mils. 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.

For maintenance and repair in atmospheric service 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 557 for aggressive service environments.

Aluminum or Stainless Steel: Not recommended.

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 SteelKote 557 with 1 part of ACT-097 Activator.

Brush/Roll Instructions:

Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrapment. Multiple coats may be necessary to achieve adequate film build.

Material Properties

Gloss Level	80° + Gloss
Density	9.5 +/- 1.0 lb/gal color dependent (mixed)
Volume Solids	55% +/- 2% (mixed)
VOC	max. 3.5 lb/gal (420 g/l)
Dry Film Thickness	3.0-5.0 mils
Pot Life	1- hour (mixed) @ 70°F / 50% RH 1.5-2 hours (mixed) @ 50°F / 50% RH 45-55 mins (mixed) @ 80+ °F / 50% RH
Theoretical Coverage	3.0 mils DFT @ 348 ft ² /gal.
Practical Coverage	As a guideline for airless spraying on large dimensions: 70% of theoretical coverage. For small dimensions: 50%

Application Instructions

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	PCBTF	PCBTF	PCBTF
Quantity	0-5%	0-5%	0-5%
Nozzle or Tip Size	0.013-0.015	0.013-0.015	1.5-1.8
Fluid Pressure	1500 - 2500 PSI	1000 - 1500 PSI	8-10 PSI
Air Pressure	N/A	50 PSI	24-28 PSI
Dry Film Thickness	3.0 - 5.0 Mils	3.0 - 5.0 Mils	3.0 - 5.0 Mils

Performance Characteristics

Accelerated Weathering: ISO 11507 / ASTM G154 ISO 2813 / ASTM D523	2000 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	80 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

Cleaning Instructions:

Cleaning tools: Clean immediately after application using MEK.

Warranty

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

Depends on application. Please contact your Baril representative.

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.