

SteelKote 550

High Gloss Acrylic Polyurethane Enamel

Description:

SteelKote 550 is a high-performance, 3.5 VOC, high-gloss acrylic polyurethane enamel designed to provide long-term protection in moderate to severe environments. Its advanced formulation delivers outstanding resistance to fresh water, salt water, a wide range of chemicals, fumes, and incidental contact with most solvents, acids, and alkalis. SteelKote 550 offers excellent abrasion and moisture resistance, making it an ideal durable high-gloss topcoat for properly primed steel surfaces. It may also be used as a Direct-to-Metal (DTM) finish when appropriate. This product is recommended for commercial, industrial, and marine applications including machinery, trailers, containers, implements, structural steel, and vehicles—anywhere exceptional color and gloss retention, durability, and an automotive-quality finish are desired.

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	85° + High Gloss
Density	9.00 +/- 0.2 lbs/gal - mixed (color dependent)
Volume Solids	47 +/- 2% mixed (color dependent)
VOC	<3.50 lbs/gal 420 grams/ltr - mixed
Dry Film Thickness	2.0-4.0 mils
Pot Life	150 mins @ 68°F / 20°C (ACT096) 90 mins @ 68°F / 20°C (ACT913)
Theoretical Coverage	2.0 DFT @ 425 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 SteelKote 825, SteelKote 850 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 a 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 whether using Steelkote primers before applying the SteelKote 550 or using as a DTM product. Use Steelkote primers before applying the SteelKote 550.

Galvanized Metal: Use of recommended primer is necessary.

Aluminum or Stainless Steel: Prime with SteelKote 850. For best performance, apply to an abrasive-blasted surface. Alternatively, etch the substrate with a phosphoric acid pretreatment solution to maximize adhesion. Remove all surface contamination by thoroughly scrubbing with a suitable 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 4 parts SteelKote 550 Part A with 1 part of ACT096. For fast drying properties, use ACT913 at same ratio as ACT096.

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	1500 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	50 Double MEK Rubs (overnight cure)
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:	60 mins. (ACT096) 45 mins. (ACT913)
To Handle:	180 mins. (ACT096) 120 mins. (ACT913)
To Re-Coat:	<4 hours or wait 36-48 hours @ 2 mils dft <i>*Light scuffing is required if waiting 36-48 hours</i>
Force Cure:	30 minutes @ 140°F <i>* Light scuffing required after 36-hours</i>

Cleaning Instructions:

Cleaning tools: Clean immediately after application using xylene/acetone mixture.
MEK will provide more effective cleaning if permitted on the premises.

Health & Environmental:

In accordance with OSHA regulations on hazardous materials, this product may be harmful or irritating if it comes into contact with the skin or eyes, or if inhaled. Observe all safety information provided on the MSDS/SDS. Always wear appropriate protective clothing, including gloves and eye protection. In case of eye contact, immediately flush with plenty of water and seek medical attention. When spraying, always wear a properly fitted NIOSH-approved respirator; fresh air-supplied respirators are preferred. Do not eat, drink, or smoke during application.

Discharge, treatment, or disposal of this material is subject to federal, state, provincial, and local regulations. Since empty containers may retain product residue, follow all label warnings even after the container is emptied. Residual vapors may ignite explosively; 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.