

SteelKote 900

High Solids DTM Urethane Primer

Description:

SteelKote 900 is a uniquely engineered high performance two component modified Urethane Primer for the use in light and general industrial application to achieve moderate corrosion resistance. This product is an excellent choice for same catalyst primer and finished coat system especially where customers don't have separate spray equipment for primers like Graco 2KE. The material can be utilized for fleet repair and automotive refinish application as a sandable primer/sealer but prior to application it should be modified with ACC1000 accelerator to achieve great sandability in 45 minutes to one hour. Steelkote 900 has tenacious adhesion characteristics and excellent holdout abilities. Steelkote 900 can be applied to properly prepared bare steel. Sands with less wait time and minimal shrinkage. It exhibits superior resistance to fresh and salt water, detergents, solvents and corrosive chemicals. The material is used for both high performance and decorative steel. It is suitable for application with corrosivity class C1-C3 (from C1 - very low corrosion to C3 - medium corrosion), including machinery and equipment.

Advantages:

- Easy to apply direct to metal over moderately prepared steel
- Excellent sag resistance
- Outstanding adhesion directly to steel with minimal pretreatment
- Excellent chemical resistance
- Suitable for light to moderate corrosive environment
- Sandable with proper adjustment using ACC1000 accelerator
- Excellent choice for same catalyst primer & topcoat system

Uses:

- Agricultural and Farm Implements
- Construction Machinery & Equipment
- Automotive Refinish
- Fleet Repairs
- Infrastructure
- Appliances

Material Properties

Gloss Level	Flat
Density	12.20 lbs./gal 1.45 kg/ltr (mixed)
Volume Solids	50% +/- 0.5% (mixed)
Weight Solids	68% +/- 0.5% (mixed)
VOC	3.0 lbs./gal. / 357 grams/ltr. (mixed)
Dry Film Thickness	2.0-4.0 mils
Pot Life	1 hour (mixed) @ 70°F and 50% RH
Theoretical Coverage	810 sf/gal @ 1.0 mil DFT
Practical Coverage	50% of theoretical coverage
Shelf Life	24 months maximum

Surface Preparation:

Ferrous Metal: Remove weld spatter, protrusions and laminations in steel. Remove all contaminants with SSPC SP-1. Abrasive blast with an angular abrasive to an SSPC SP-6 or SP-10 cleanliness for best performance. Achieve profile of 1.5 - 3.0 mils. For maintenance and repair in atmospheric service, the material can be applied over surfaces prepared in accordance with SSPC SP-2 or SP-3 (hand and power tool cleaning). Apply an epoxy or zinc rich primer for aggressive environments.

Non-ferrous Metal: Lightly abrasive blast or mechanically abrade in accordance with SSPC SP-16 to achieve a uniform and dense 1.5 - 4.0 mil anchor profile. Apply an epoxy primer for aggressive environments.

Aluminum: Not recommended

Previously Painted Surfaces: Ensure the coating system is sound and well adhered. Do not apply over acrylic coatings or coatings that exhibit poor solvent resistance. A test patch is recommended to determine compatibility and adhesion. Sweep blast or otherwise thoroughly abrade the existing coatings in accordance with SSPC SP-7. Feather the edges of tightly adhered, intact coatings at the perimeter of repair areas. Power tool clean the existing steel in accordance with SSPC SP-3 (atmospheric service)

Mixing Instructions:

Thoroughly mix the product, preferably using a mechanical mixing device. Add 4 parts of 900 Primer with 1 part of ACT-096 activator. Although the material is supplied at ready to use viscosity, it can be further reduced by 2-10% based on volume using SOL680 depending on customer's requirement.

Application:

Apply two to three medium to wet coats allowing 10-15 minutes flash time between coats. Mill build should be 2.8 - 4.0 dry mills per coat. Three wet coats will give 12 dry mils and can be sanded in 3-4 hours.

Note: Baril Coatings USA recommends that this product not be used under 50°F. Using below 50°F can result in extended dry times or product failure.

Application Instructions

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	SOL680	SOL680	SOL680
Quantity	5-8% (as necessary)	5-10% (as necessary)	2-5% (as necessary)
Nozzle or Tip Size	0.011-0.013 inch	0.011-0.013 inch	1.0-1.4 inc
Fluid Pressure	2000-2500 PSI	1000-1500 PSI	8-10 PSI
Air Pressure	N/A	50 PSI	40-45 PSI
Dry Film Thickness	2.0-4.0 Mils	2.0-4.0 Mils	2.0-4.0 Mils

Performance Characteristics

Adhesion ASTM D3359	5B - 100% Retention
Impact (Direct) ASTM D-2794	40in lbs Direct
Chemical Resistance ASTM D5402	100 Double MEK Rubs
T-Bend Flexibility ASTM D522	N/A
Abrasion Resistance	Taber CS-17 / 1kg 1000 cycles: 200 mg loss
Corrosion Resistance ASTM-B117	1000 hours, scribed, Rating 6, minimum
Pencil Hardness ASTM D3363	Passes H - 2H

Dry Times: 70°F @ 2-4 mils DFT

Recoat Window: 30 mins - 4 hours
If topcoat is not applied in 4 hours,
overnight curing of 12-16 hours is required.

Maximum Recoat: 7 days
After 7 days, primer must lightly
sand scuffed or shot blasted
and repeat procedure.

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 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.