



**IMA – 707**  
**COROGUARD™**  
**Superthane Aliphatic Urethane**  
**827 Line**  
**Rev. 1/11**

Coronado Industrial Coatings - 101 Paragon Drive · Montvale, NJ 07645 · Phone 800-225-5554 · FAX 888-248-2143

## COROGUARD™ Superthane™ Aliphatic Urethane 827 Line

Type	Sheen	Theoretical Spread Rate	Recommended Application	Thinner	Clean Up
Aliphatic Acrylic Urethane	High Gloss	450-550 Sq. Ft. Per Gallon*	Airless or Air Spray Brush, Roll (Use 827-607 Retarder)	COROSOLVE™ 45-202	COROSOLVE™ 45-202
<b>Touch Dry Time: (Without Accelerator)</b>	4 Hrs. @ 55°F (13°C) 1 Hr. @ 77°F (25°C) 30 Min. @ 100°F (38°C)	<b>Min Recoat: (Without Accelerator)</b>	12 Hrs. @ 55°F (13°C) 4 Hrs. @ 77°F (25°C) 2 Hrs. @ 100°F (38°C)	<b>Max Recoat : (with 827 Line)</b>	14 Days

<b>PRODUCT NAME: 827 Line COROGUARD™ Superthane™ Aliphatic Urethane</b>	COROGUARD™ Superthane™ is a multi-use, two-component Aliphatic Acrylic Urethane that provides excellent gloss and color retention, as well as excellent abrasion, chemical, and solvent resistance. It may be used anywhere a performance urethane is necessary for interior or exterior applications. This product is ideal as a non-sacrificial anti-graffiti coating in clear or pigmented colors. It resists UV degradation, delivering a coating with excellent gloss and color retention. It also provides excellent UV protection for substrates and undercoats. Superthane™ complies with or surpasses formulation and performance requirements of MIL-C-85285. <b>This is a two-component product that must be mixed with the proper converter prior to application. Mix one short filled gallon of A with one quart of 827-1B (3:1).</b>		
<b>WHERE TO USE:</b>	<b>Properly Prepared and Primed Steel, Iron, Non-Ferrous, Concrete, and Fiberglass</b>	Typical market segments include Food and Beverage Processing, Industrial Maintenance, Paper and Pulp Processing, Transportation, Industrial Flooring, General Metal Finishing / Fabrication, Chemical Processing, Commercial Structures, Tank Exteriors and other areas requiring a long life, performance urethane.  Note: Coated surfaces may discolor under tires due to plasticizer migration.	

<b>REGULATORY INFORMATION:</b>	<b>VOC/VOS STATEMENT:</b>	<b>OTC CATEGORY:</b>	<b>MPI / LEED:</b>
	The products supported by this data sheet contain a maximum of 450 grams per liter VOC / VOS (3.75 lbs/gal.) excluding water & exempt solvents.	This product is not compliant under the Ozone Transport Commission regulations except for Shop Applications Only.	This product is certified under MPI's #83 & 105. This product does not meet qualifications for LEED (Leadership in Energy and Environmental Design) projects.

<b>SURFACE PREPARATION:</b>	<p>The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils, accumulated salts, and other contaminants must be removed prior to employing specific surface preparation methods. Removal of all contaminants should be completed in accordance with SSPC-SP1 followed by specific preparation methods as indicated on primer data sheets. Rust and mill scale must be removed from carbon steel and iron substrates as outlined on specific primer data sheets.</p> <p>For ferrous metal and concrete: see primer section of this document (page 3) followed by specific primer data sheets for substrate preparation methods, as this product should not be applied directly to these substrates.</p> <p>Non-ferrous metals, fiberglass, and existing coatings should be solvent cleaned (SSPC-SP1), and abraded to provide sufficient surface profile. Then apply a test patch area to check adhesion and compatibility. The use of a primer may be necessary.</p>
<b>APPLICATION:</b>	<p>Mix the "A" component thoroughly before application; the use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the "A" and thoroughly mix the two together. Allow 15 minutes @77°F (25°C) induction or "sweat-in" time prior to applying the mixed product to the substrate. Do not apply COROGUARD™ Superthane™ if air or surface temperatures are below 50°F (10°C) or above 95°F (35°C), or in relative humidity levels greater than 90%, or if surface or air temperatures are within 5 degrees of the dew point.</p> <p>The dry and recoat times may be reduced by using up to 2 ounces per gallon of 827-269 Urethane Accelerator per gallon. Usable pot life will be reduced to 2 hours @ 77°F (25°C) if accelerator is used.</p> <p>Thin with COROSOLVE™ Urethane Thinner 45-202 ONLY. SEE THINNING RECOMMENDATIONS ON PAGE THREE.</p>

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	<p><b>Airless Spray (Preferred Method):</b> Tip range between 13 and 17 thousandths. Total fluid output pressure at tip should not be less than 2400 psi.</p> <p><b>Air Spray (Pressure Pot):</b> DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.</p> <p><b>NOTE:</b> Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.</p> <p><b>Brush:</b> Natural Bristle only. Use up to 1 pint per gallon 827-607 Retarder Solvent to increase open time.</p> <p><b>Roller:</b> Industrial Cover with Phenolic core. Use up to 1 pint per gallon 827-607 Retarder Solvent to increase open time.</p>
<b>*NOTE ON SPREAD RATE:</b>	The actual spread rate will vary based upon numerous factors, including texture of the substrate, application method, waste, surface porosity and thinning. The Theoretical Spread Rate listed on this document has not taken into account these factors and is only based upon the volume solids of this product and the recommended wet film thickness when applied to a smooth substrate.
<b>STORAGE:</b>	12 months at 77°F in original unopened container. Prolonged storage at higher temperatures can shorten the shelf life. Store in dry, shaded area, away from heat and ignition sources. Protect from frost.
<b>TINTABILITY:</b>	COROGUARD™ Superthane™ is available in -10 Clear, -1 White Base, -38 Deep Base, -36 Clear Base as well as colored bases to be tinted with Prism Industrial Colorants ONLY. Special Colors are available in minimum batch quantity orders.
<b>RESIN TYPE:</b>	Aliphatic Acrylic Urethane
<b>VOLUME SOLIDS:</b>	White: 55.1% ± 1.0%      Clear: 48.7% ± 1.0%
<b>WEIGHT PER GALLON:</b>	10.4 lbs. (varies with color & base)
<b>MIX RATIO:</b>	3:1    USE ONLY 827-1B Converter
<b>INDUCTION TIME:</b>	1 hr. @ 55°F (13°C), 15 min. @ 77°F (25°C), 5 min. @ 100°F (38°C)
<b>POT LIFE:</b>	10 hrs. @ 55°F (13°C), 5 hrs. @ 77°F (25°C), 2.5 hrs. @ 100°F (38°C)
<b>FLASH POINT:</b>	Mixed: 80°F. (TT-P-141, Method 4293)
<b>SPECULAR GLOSS:</b>	90+ units @ 60°
<b>WET FILM THICKNESS:</b>	2.9 to 3.6 mils
<b>DRY FILM THICKNESS:</b>	White: 1.6 to 2.0 mils    Clear: 1.4 to 1.7 mils
<p><b>CAUTIONS:</b>  (These statements based upon a 3:1 mixture of 827-1A and 827-1B. Statements may vary from color to color. See specific label for actual precautions)</p>	<p style="text-align: center;"><b>DANGER!</b></p> <p>FLAMMABLE LIQUID AND VAPOR. VAPOR AND SPRAY MIST HARMFUL. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION, EFFECTS MAY BE PERMANENT. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CALL PHYSICIAN IMMEDIATELY.</p> <p><b>Contains: Aliphatic Polyisocyanates and Organic Solvents.</b> Vapor and mist harmful. May be harmful if absorbed through skin. <b>NOTICE:</b> Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. <b>INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST.</b> Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator (NIOSH approved) during application unless air monitoring demonstrates vapor/mist levels are below applicable limits. An airline respirator (NIOSH approved) is recommended. A vapor/particulate respirator (NIOSH approved) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. Follow manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Vapor may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. <b>Use only with adequate ventilation.</b></p> <p><b>First Aid:</b> If affected by inhalation of vapor or spray mist, move to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately.</p> <p>Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.</p> <p><b>DANGER –</b> Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed, water-filled metal container.</p> <p><b>Warning:</b> This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.</p> <p style="text-align: center;"><b>Obtain and read the MSDS prior to using this product</b>  <b>KEEP OUT OF REACH OF CHILDREN</b></p> <p style="text-align: center;"><b>FOR INDUSTRIAL USE ONLY</b></p>

**TEST DATA**

<b>Accelerated Weathering (ASTM G53) 1000 Hours</b> 1 coat 1201 Primer, 2 coats 827-1	95% Gloss Retention < 0.25 DE Color Change (CMC)
<b>Salt Fog Resistance (ASTM B117) 2000 Hours</b> (Same system as above)	Rust Breakthrough – 10 Rating Rust Area – 0.01%
<b>Abrasion Resistance (ASTM D4060) Taber (CS-10 Wheel, 1000g load, 1000 cycles)</b>	80 mg. loss
<b>Dry Heat Resistance</b>	200°F
<b>Wet Heat Resistance</b>	125°F
<b>Adhesion (ASTM D3359)</b>	5B
<b>Flexibility (ASTM D1737)</b>	Pass 1/4" Mandrel

**CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)**

<b>Fresh Water</b>	Excellent
<b>Salt Water</b>	Excellent
<b>Acids</b>	Excellent
<b>Alkalis</b>	Excellent
<b>Solvents</b>	Excellent
<b>Fuel</b>	Excellent
<b>Acidic Salt Solutions</b>	Excellent
<b>Alkaline Salt Solutions</b>	Excellent
<b>Neutral Salt Solutions</b>	Excellent

**QUALIFICATIONS**

827-10 (Clear) meets MPI #105.
All colors with Non-Skid Additive meet MPI #83.
Meets performance requirements for DOD-P-23236, Class IV
Meets performance requirements for MIL-C-85285, 83286, & 83445
USDA Qualified for incidental food contact.
Certified by CFIA (Canadian Food Inspection Agency)
Meets performance requirements for USPS C-64

**SYSTEMS RECOMMENDATIONS  
COMPATIBLE PRIMERS & INTERMEDIATES**

Primers: 1201, 111, 113, 142, 820, 1147, 317-200
Intermediates: 111, 113, 3821-111
COROGUARD™ Superthane™ Aliphatic Urethane is compatible with COROGUARD™ Superthane™ Accelerator (827-269). See Accelerator Data Sheet (IMA-906) for specific usage requirements.
For finishes other than listed above, or for usage in severe environmental conditions, please consult with Coronado Industrial Coatings technical service.

**WARRANTY**

Coronado Paint Company warrants its products to be free from defects in materials and workmanship. Coronado Paint Company's sole obligation and the purchaser's exclusive remedy shall be limited, at Coronado Paint Company's option, to either replacement of nonconforming products or credit to the purchaser's account in an amount not greater than the original purchase price of the nonconforming products. Any claim under this warranty must be made by the purchaser, in writing to Coronado Paint Company, within ten (10) days of the purchaser's discovery of the claimed defect, but not later than the expiration of the applicable shelf life, or one year from the original delivery date, whichever is earlier. Purchaser's failure to notify Coronado Paint Company of any nonconformance as required shall bar the purchaser from recovery under this warranty.

Coronado Paint Company makes no other warranties, expressed or implied, such as merchantability or fitness for a particular purpose concerning its products. In no event shall Coronado Paint Company be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the usage of products made by Coronado Paint Company, whether in the form of literature, data, or in response to specific inquiry, or otherwise is based upon information believed to be reliable; however the products and information are intended for use by skilled and knowledgeable purchasers, and is therefore for the purchaser to satisfy itself of the suitability of the products for its own specific use, and it shall be deemed that the purchaser has done so, at the sole discretion and risk. Variation in application conditions, ambient conditions or extrapolation of information may cause unsatisfactory results.

**LIMITATION OF LIABILITY**

Coronado Paint Company's liability on any claim, including claims based upon negligence, or strict liability for loss, or damage arising out of, connected with, or resulting from the use of products, shall in no case exceed the purchase price of the products directly giving rise to the claim. In no event shall Coronado Paint Company be liable for consequential or incidental damages.

**THINNING RECOMMENDATIONS:**

Do not thin more than local regulations allow.

**DO NOT USE THINNERS OTHER THAN COROSOLVE™**  
Urethane Thinner 45-202.

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NOTES: