

### Product

**RCS 5000 Series 100% Acrylic Elastomeric Roof Coating**  
**Generic Type:** 100% Acrylic Latex

### Product Description

**RCS 5000** is a premium quality, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully-adhered seamless membrane exhibits outstanding adhesion, strength, flexibility, and water resistance.

### Recommended Uses

Use **RCS 5000** to extend the life of new and existing built-up asphalt, modified bitumen, asphalt shingle, single-ply, galvanized metal, concrete, and plywood roofs. **RCS 5000** is ideal for flat deck roofs with positive drainage.

### Performance Characteristics

- Superior Exterior Durability and UV Light Resistance
- Excellent Adhesion to Most Roofing Materials
- Seamless, Fully-Adhered Elastomeric Membrane Inhibits Leaks
- High Reflectivity Reduces Roof Surface Temperatures, thereby Prolonging Roof Life and Reducing Interior Temperatures and Energy Costs
- Excellent Dirt Pick-up Resistance
- Low Temperature Flexibility Down To -15°F
- Easy, Low-Cost Installation
- Low Toxicity and Odor (Environmentally Safe)
- Easy Soap and Water Clean-up (User Friendly)

**Colors:** 5001 White, 5002 Gray, 5003 Tan  
 Custom colors manufactured upon request. Limitations apply.

### Companion Products

The following products may be beneficial and/or necessary to prepare the substrate properly. Refer to "Surface Preparation" and the companion Product Data Sheet for specific recommendations.

- Lapolla's **RCS 20** Acrylic Primer-Sealer
- Lapolla's **RCS 30** Rust-Inhibitive Metal Primer
- Lapolla's **RCS 40** Rinseable Primer
- Lapolla's **RCS 91** Acrylic Elastomeric Patch - Fibered Knife Grade
- Lapolla's **RCS 92** Acrylic Elastomeric Patch
- Tietex® Roofing Fabric or equivalent
- EternaBond® WebSeal Seam Tape or equivalent

### Technical Data

APPLICABLE STANDARDS: Miami-Dade County Building Code (HVHZ), International Building Code, Florida Building Code, California Title 24, Cool Roof Rating Council, Energy Star, Florida Power & Light.

**RCS 5000** complies with all of the requirements of the Florida Building Code (HVHZ) Testing Application Standard TAS 110-2000, Section 7: Coatings using ASTM D-6083-97a, Standard Specification for Liquid Applied Acrylic Coating Used in Roofing, Section 1253.6.3 for liquid applied roofing membrane systems including the requirements of Federal Specification TT-C-555B, Section 3.3.3: Resistance to Wind-Driven Rain.

Properties	Test Method/ Requirements	Value
<b>Miami-Dade County Acceptance Number:</b>		07-0612.02
<b>Cool Roof Rating Council (CRRC) Product ID:</b>	(5001 White)	0770-0003
<b>Radiative Properties:</b>	(5001 White) Solar Reflectance - Initial: Solar Reflectance - Aged: Thermal Emittance - Initial: Thermal Emittance - Aged:	0.86 0.76 0.90 0.91
<b>Solar Reflective Index:</b>	SRI - Initial: SRI - Aged:	109 95
<b>Percent Solids by Weight:</b>	ASTM D 1644	72.4%
<b>Percent Solids by Volume:</b>	ASTM D 2697	56.2%
<b>Viscosity:</b>	ASTM D 562	110 KU ± 10 KU
<b>VOC:</b>		0.17 lbs/gal (20.2 g/l)
<b>Flash Point:</b>		None
<b>Tensile Strength/ Elongation at Break:</b> -Tensile Strength @ 73°F: -Elongation @ 73°F: -Elongation @ 73°F after 1000 Hours Accelerated Weathering:	ASTM D 2370	55% (±3)  222psi 224% 124%
<b>Permeance:</b>	ASTM D 1653	36.2 PERMS @ 20 DRY MILS, 73.4°F/50% RH, Inverted
<b>Water Swelling:</b>	ASTM D 471	5.9%
<b>Wet Adhesion:</b> - Galvanized Metal: - Concrete: - EPDM: - SBS Granule:	ASTM C 794/D 903	7.1 PLI 9.2 PLI 3.2 PLI 2.0 PLI
<b>Tear Resistance (DIE C):</b>	ASTM D 624	74.3 LBF/IN
<b>Fungi Resistance Rating:</b>	ASTM G 21	0
<b>Low Temperature Flex, 1/2" Mandrel, -15°F after 1000 Hours Accelerated Weathering:</b>	ASTM D 522	PASS
<b>Appearance After 1000 Hours Accelerated Weathering:</b>	ASTM D 4798	PASS
<b>Environmental Statement:</b>	Complies with U.S. Federal Regulations concerning use of lead and/or mercury in paint	
<b>Storage Conditions:</b>	Store in a cool, dry area. Protect from freezing.	
<b>Shelf Life:</b>	Two years when stored properly.	



# RESTORATION™ COATING SYSTEM

# RCS 5000

## 100% Acrylic Elastomeric Roof Coating

Rev. Date 6/7/10

### Surface Preparation & Priming

All surfaces must be clean, dry, and sound; free of loose and peeling coatings, grease, oil, efflorescence, curing agents, form release agents, dirt, mildew, and other detrimental foreign matter that will adversely affect adhesion and product performance.

When appropriate, pressure-wash the substrate to remove surface contaminants. Power-broom, vacuum, air-blast, or use other methods to prepare the substrate further. Ensure removal of all mildew and other organic growth.

Prime porous, chalked, dusty, and substrates with loose or crumbling debris with **RCS 20** 100% Acrylic Primer-Sealer.

**Note:** Do not use **RCS 20** on Single-Ply membranes.

Repair and/or reinforce seams, flashings, and transitions with like materials, **RCS 91/92** 100% Acrylic-Elastomeric Patch, Tietex Roofing Fabric, EternaBond WebSeal Tape, or a combination thereof.

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**Black EPDM:** Prepare substrate with **RCS 40** Rinseable Primer.

**Miscellaneous Single-Ply:** (TPO, PVC, CSPE, etc.) **RCS 5000** adheres well to most clean, dry, single-ply membranes. Apply a test area and allow **RCS 5000** to dry one week before testing adhesion. If adhesion is poor, contact Lapolla for additional surface preparation requirements and/or interface primers.

**Galvanized Metal:** Clean with a commercial grade emulsifying detergent. Thoroughly rinse with clean water. If loose mill scale, or more severe corrosion is present, prepare according to Hand Tool Cleaning SSPC-SP2 or Power Tool Cleaning SSPC-SP3. Prime corrosion with **RCS 30** 100% Acrylic Rust-Inhibitive Metal Primer.

**Concrete:** Allow new concrete to cure for 30 days. The pH of the substrate should be less than 9 before coating. Very dense, nonporous, or chemically treated concrete may require etching or abrasive blasting to promote adhesion. Note: Do not apply **RCS 5000** to lightweight insulating concrete.

**Plywood:** Prime knots and resinous areas with shellac or a 100% Acrylic Exterior Latex Wood Primer.

**Existing Coatings:** **RCS 5000** is compatible with acrylic, urethane, and various other roof coatings.

**Note:** Do not use **RCS 5000** on Silicone. Contact Lapolla before use on Aluminized Asphalt or any non-listed roof coating.

### Application Data

**APPLICATION METHODS:** Mix well before use. Apply with a brush, roller, or airless spray equipment.

**APPLICATION EQUIPMENT:** Brush » Synthetic filament. Roller » 1¼" nap. Airless Spray » Equipment capable of maintaining a minimum of 0.027" or greater orifice tips with 2,300 PSI at the tip. Filter screens should be thirty-mesh or larger.

**THINNING:** Do not thin. Thinning will adversely affect application and product performance.

**RECOMMENDED WET FILM PER COAT:** 16 to 24 mils.

**RECOMMENDED DRY FILM PER COAT:** 8.8 to 13.2 mils

**SPREAD RATE:** Apply at a rate of 75 to 100 square feet per U.S. gallon per coat.

**DRYING TIME @ 77°F and 50% R.H.:**

To touch: 2 hours To recoat: 6 hours

**APPLICATION PRECAUTIONS:** Plan ahead. **RCS 5000** requires complete evaporation of water to cure. Lower temperatures and higher humidity prolong drying and cure time.

Apply only when air, surface, and product temperatures are between 50°F and 100°F and the substrate is at least 5°F above the dew point. Do not apply when temperatures may drop below 50°F within 24 hours after application. Avoid application late in the day when dew or condensation is likely to form or when rain is expected.

**CLEAN UP:** Promptly clean hands, tools, and equipment with warm soapy water. Flush spray equipment with solvent after cleaning to remove moisture and prevent corrosion. (Follow equipment manufacturer's safety precautions.)

### Limitations

Do not use on surfaces demonstrating hydrostatic or high vapor pressure.

### General Health & Safety Precautions

This product is intended for use by trained professional personnel. Before use, applicator, and all persons handling this product, should read the **RCS 5000** Material Safety Data Sheet (MSDS) for additional health, safety, and emergency information. Always keep a copy of the MSDS on the jobsite. Always wear personal protection equipment.

### Packaging

**U.S. MEASURES:** 5-gallon pails and 55-gallon drums.

**WEIGHT PER U.S. GALLON:** 12.20 lbs.

### DISCLAIMER

The data presented herein is not intended for use by nonprofessional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

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