

# RCS™ 5000QS

## 100% Acrylic Roof Coating

**RESTORATION™**  
COATING SYSTEM

### Product Description

**RCS 5000QS** is an acrylic elasto-meric fluid-applied coating designed to enhance energy savings and water resistance protecting the assets and increase the longevity of the structure. **RCS 5000QS** Series withstands intense heat and ultraviolet rays in **humid climates**. Use **RCS 5000QS (Quick Set) formula before or after light rain occurs or in high humid circumstances**.

**RCS 5000QS** is formulated using advanced all-acrylic polymer technology for application over spray polyurethane foam applications. **RCS 5000QS** is ideal for low slope roofs with positive drainage.

### Performance Characteristics

- Superior exterior durability and UV light resistance
- Severe Hail Rated with LPA Roofing Foam and Coating System
- Seamless, fully-adhered elastomeric membrane
- Water Resistant
- Excellent dirt pick-up resistance
- Low temperature flexibility down to -15°F
- UL 790 Approved on multiple constructions
- Low maintenance/renewable

### Product Characteristics:

Standard Colors:	5001QS White, 5002QS Gray, 5003QS Tan Custom colors manufactured upon request. Limitations apply.	
Sheen	Flat	
Radiative Properties: (5001 White)	Solar Reflectance - Initial:	0.86
	Solar Reflectance - Aged:	0.76
	Thermal Emittance - Initial:	0.90
	Thermal Emittance - Aged:	0.91
Solar Reflective Index:	SRI - Initial:	109
	SRI - Aged:	95
Environmental Statement:	Complies with U.S. Federal Regulations concerning use of lead and/or mercury in paint	
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/ 50% R.h.:	To touch: 2 hours	To recoat: 6 hours

### Application Equipment

**RCS 5000QS** may be applied by medium nap rollers, brushes, or by conventional or airless spray equipment. Airless spray application is most efficient whereas rolling or brushing may be best for touch-up, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. 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.

Contact Lapolla Industries Technical Service personnel for specific recommendations, pricing and availability of spray and auxiliary equipment.

Properties	Test Method/ Requirements	Value
Percent Solids by Weight:	ASTM D 1644	71% ±3%
Percent Solids by Volume:	ASTM D 2697	56% ±3%
Viscosity:	ASTM D 562	110 KU ± 10 KU
VOC:	0.17 lbs/gal (20.2 g/l)	
Flash Point:	None	
Tensile Strength/ Elongation at Break:	ASTM D 2370	-Tensile Strength @ 73°F: 312psi
		-Elongation @ 73°F: 224%
		-Elongation @ 73°F after 1000 Hours Accelerated Weathering: 167%
Permeance:	ASTM D 1653	24 PERMS @ 20 DRY MILS, 73.4°F/50% RH, Inverted
Water Swelling:	ASTM D 471	15%
Wet Adhesion:	ASTM C 794/D 903	- Galvanized Metal: 7.1 pli
		- Concrete: 9.2 pli
		- EPDM: 3.2 pli
		- SBS Granule: 7.4 pli
Tear Resistance	ASTM D 624	(DIE C): 74.3 LBF/IN
Fungi Resistance Rating:	ASTM G 21	0
Low Temperature Flex, 1/2" Mandrel, -15°F after 1000 Hours Accelerated Weathering:	ASTM D 522	PASS
Appearance After 1000 Hours Accelerated Weathering:	ASTM D 4798	PASS

### Credentials

- Underwriters Laboratories Inc. (UL 790) Approved
- Cool Roof Rating Council (CRRC) Listed
- CRRC Product ID: 1001 White - 0770-0001
- Factory Mutual Global Approved (FM Approval)
- FM Approvals Class 4470/4880
- Miami-Dade County Approved
- NOA 12-0726.04, Miami-Dade County, Florida, 08/09/16
- Energy Star Approved
- Meets California Title 24 Requirements

### Surface Preparation & Priming

Apply only to roofs with adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot). This product is not intended for areas where ponding water might occur. All surfaces must be clean, dry, and sound; free of loose and peeling coatings and mastics, grease, oil, efflorescence, curing agents, form release agents, dirt, mildew and other detrimental foreign matter that will adversely affect adhesion and product performance. Make sure roof is well vented. A primer may be required subject to type and/or condition of the substrate. If surface is one which requires an application of **TF Primer**, Consult Lapolla Technical Service Personnel for specific primer recommendations and substrate preparation procedures.

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Rev. Date 09/14/15

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### Application Guidelines

Apply **RCS 5000QS** directly to spray polyurethane foam on the same day as the installation whenever possible. Do not allow SPF to remain uncoated for more than 48 hours.

Lower temperatures and higher humidity prolong drying and cure time. Apply only when air, surface, and product temperatures above 55°F. Do not apply when temperatures may drop below the dew point or 40°F within 6 hours after application.

Apply first coat of **RCS 5000QS** over clean, dry surface. After a curing period of approximately three to eight hours (depending on humidity and temperature) apply second coat. Avoid application late in the day when dew and condensation is likely to form or when rain is expected. When surface temperature is greater than 110°F application rate should be reduced to .70 - 1.0 gallon per 100 square feet.

It is recommended that **RCS 5000QS** be sprayed in multiple coats applied in multi-directional (north-south, east-west) passes to ensure uniform film build. Backrolling sprayed material may be necessary to fill pinholes in substrate. Final cured dry film thickness must be free of voids, pinholes, holidays, cracks or blisters.

Apply in a minimum of 2 coats with each coat at a maximum rate of 1.5 gallons per 100 square feet, for a total minimum coating rate of 3 gallons per 100 square feet. Additional coats of 1.5 gallons maximum per 100 square feet may be applied to obtain the desired final thickness of coating. The minimum allowable dry mil thickness shall be no less than 24 mils. Granules may be broadcast into the final coating application at a rate of 35 - 40 pounds per 100 square feet. No foot traffic shall be permitted on the finished coated surface for 24 - 72 hours depending on curing conditions after application.

**CLEAN UP:** Promptly clean hands, tools, and equipment with warm soapy water.

### Product Handling:

Some separation may occur during shipment and storage, therefore the contents of each container should be thoroughly power mixed for ten (10) to fifteen (15) minutes before application. Product should never be thinned. **RCS 5000QS** is a water-based elastomeric acrylic coating which will freeze and become unusable at temperatures below 32°F. **PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE.** Do not store material at temperatures below 50°F.

**SHELF LIFE:** One year from manufactured date when stored properly.

### Packaging

**U.S. MEASURES:** 5-gal. pails, 55-gal. drums & 275-gal. totes.

**WEIGHT PER U.S. GALLON:** 11.65 lbs.

### Limitations

Do not use on surfaces demonstrating hydrostatic or high vapor pressure. This product is not intended for use in areas where ponding water may be present. Ponding water issues must be eliminated prior to the application of this coating.

### General Health & Safety Precautions

This product is intended for use by trained professional personnel. Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the S.D.S. In case of emergency contact **CARECHEM EMERGENCY NUMBER at 866-928-0789.**

**WARNING:** Avoid eye contact with the liquid or spray mist. Applicators should wear protective clothing, gloves and use protective equipment on face, hands and other exposed areas.

**EYE PROTECTION:** Safety glasses, goggles, or a face shield are recommended. **SKIN PROTECTION:** Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing. **RESPIRATORY PROTECTION** is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact Lapolla for a copy of the Respiratory Protection Program developed by OSHA. **INGESTION:** Do not take internally. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

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