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 lon-gevity 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 tech-nology 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: Solar Reflectance - Aged: Thermal Emmitance - Initial: Thermal Emmitance - Aged:	0.86 0.76 0.90 0.91
Solar Reflective Index:	SRI - Initial: SRI - Aged:	109 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
- 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.

RCS™ 5000QS

100% Acrylic Roof Coating

Rev. Date 09/14/15

RESTORATION™ COATING SYSTEM

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 Heath & 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.

DISCLAIMERS

The data presented herein is not intended for use by non-professional 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.

All guarantees and warranties as to products supplied by Lapolla Industries Inc., shall have only those guarantees and warranties expressed in writing by the manufacturer. The buyer's sole remedy as to any material claims will be against the applicator of the product. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING PATENT WARRANTIES OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE BY LAPOLLA INDUSTRIES, INC. WITH RESPECT TO OUR PRODUCTS OR INFORMATION SET FORTH HEREIN.

To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact Lapolla Industries, Inc. to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Lapolla Industries, Inc.'s quality control. We assume no responsibility for coverage, performance or injuries resulting from use.

MIAMI-DADE COUNTY

CLASSIFIED UL

CRRC RATED PRODUCT

WE SELL ENERGY STAR