

# RESTORATION™ COATING SYSTEM

**RCS™-4000**  
100% Acrylic Elastomeric Roof Coating

## Product

**RCS 4000 100% Acrylic Elastomeric Roof Primer**

**Generic Type:** 100% Acrylic Latex

## Product Description

**RCS 4000** is a premium quality, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully-adhered seamless membrane exhibits superior adhesion to new asphaltic roofing materials.

## Recommended Uses

Use **RCS 4000** to protect and extend the life of new modified bitumen, built-up asphalt, and asphalt emulsion roof membranes. Apply as a stand-alone protective elastomeric roof coating or employ as the basecoat in multiple-membrane elastomeric roof coating applications.

**RCS 4000** will increase the systems overall mechanical bond to the substrate and provide superior resistance to extended ponded water.

## Performance Characteristics

- Superior Adhesion to New Asphaltic Roofing Membranes
- Excellent Resistance to Asphalt "Bleed-Through" Staining
- 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 Flexibility down to -32°F, -- Below the Temperature at which Unmodified Asphalt becomes Brittle
- Easy, Low-Cost Installation
- Low Toxicity and Odor (Environmentally Safe)
- Easy Soap and Water Clean-up (User Friendly)

**Colors:** 4001 White, 4002 Gray

## 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 5000** Acrylic Elastomeric Roof Coating
- Lapolla's **Thermo-Caulk**
- Tietex® Roofing Fabric or equivalent

## Surface Preparation and Priming

All surfaces must be clean, dry, and sound; free from loose and peeling coatings, grease, oil, 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 otherwise, or further prepare, the substrate. Ensure removal of all mildew and other organic growth.

Repair and/or reinforce seams, flashings, and transitions with like materials, 100% Acrylic-Elastomeric Patch, Tietex Roofing Fabric, EternaBond WebSeal Seam Tape, or a combination thereof. When using Elastomeric Caulk and Tietex Roofing Fabric, prime the areas being repaired.

**Modified-Bitumen:** No weathering or primer is required. Apply **RCS 4000** directly to properly prepared substrates.

**Built-Up Asphalt / Asphalt Emulsions:** Allow to weather 14 days before coating. Apply **RCS 4000** directly to properly prepared substrates.

Properties	Test Method/ Requirements	Value
Standard Colors:		RCS 4001 – WHITE
Tensile Strength:	ASTM D2370	@ 75°F: 100 (Evaluation based on 20 mil DFT) @ 32°F: 720 (Evaluation based on 20 mil DFT)
Elongation:	ASTM D2370	@ 75°F: 550% @ 32°F: 130%
Adhesion:	ASTM C794-D 903	Dry: 1.0 A Wet: 1.2 A
Permeability:	ASTM D1653A	3 U.S. Perms @ 20 mils
Tear Resistance:	ASTM D624	85 lbs/in. (±2)
Solids by Weight:	ASTM D1644	62.3% (±3)
Solids by Volume:	ASTM D 2697	50.2% (±3)
Flashing Point:		None
VOC:		0.22 lbs/gal (26.4 g/l)
Viscosity (cps):	ASTM D 562	110 KU ± 5KU
PVC:		39.1
pH:		9-10
Dirt Pickup Resistance:		Very Good
Blister Resistance after modified Bitumen after 14 days:		Excellent (10 mils dry)
Swelling %:		12.1% - 1 week 26% - 4 weeks
Low Temperature Flexibility:	30°F	15 mils dry On Aluminum Panels: Pass 1/8" After exposure to 1000h artificial weathering (WOM) on APP mod-bit: Pass 1"
Environmental Statement:		Complies with current U.S. Federal Regulations concerning use of lead and/or mercury in paint.
Storage Conditions:		Store in a cool, dry area. Protect from Freezing



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Rev. Date 09/14/15

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## 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:** 24 mils

**RECOMMENDED DRY FILM PER COAT:** 12 mils

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

**DRYING TIME @ 77°F and 50% R.H.:**

**To touch:** 2 hours **To recoat:** 8 hours

**APPLICATION PRECAUTIONS:** Plan ahead. **RCS 4000** 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 above 50°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. This product is not intended for use in areas with ponding water present.

## General Health and 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 4000** Safety Data Sheet (SDS) for additional health, safety, and emergency information. Always keep a copy of the SDS on the jobsite. Always wear personal protection equipment. In case of emergency contact **CARECHEM EMERGENCY NUMER at (866) 928-0789**.

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

## Packaging

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

**WEIGHT PER U.S. GALLON:** 10.97 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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