



RCS™ 4000
TECHNICAL DATA SHEET

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.

- Huntsman Building Solutions RCS 5000 Acrylic Elastomeric Roof Coating
- Huntsman Building Solutions 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 D 2370	@ 75°F: 100 (Evaluation based on 20 mil DFT) @ 32°F: 720 (Evaluation based on 20 mil DFT)
Elongation:	ASTM D 2370	@ 75°F: 550% @ 32°F: 130%
Adhesion:	ASTM C 794-D 903	Dry: 1.0 A Wet: 1.2 A
Permeability:	ASTM D 1653A	3 U.S. Perms @ 20 mils
Tear Resistance:	ASTM D 624	85 lbs/in. (±2)
Solids by Weight:	ASTM D 1644	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	

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 NUMBER 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.

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 Huntsman Building Solutions, 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 HUNTSMAN BUILDING SOLUTIONS WITH RESPECT TO OUR PRODUCTS OR INFORMATION SET FORTH HEREIN.

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