

PROSOCO® R-Guard® Cat 5™ Rain Screen

Rain Screen Specification for Air and Water-Resistive Barrier

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products distributed and/or manufactured by PROSOCO, Inc. and should not be viewed as a complete source of information about the product(s). The Architect should always refer to the Product Data Sheet and Safety Data Sheet for additional recommendations and for safety information

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Mock-Ups

Apply to field-constructed mock-up assemblies illustrating material interfaces and seals. Use the manufacturer's application instructions. Keep mock-ups available for inspection throughout the project.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufacturer

PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@prosoco.com

Product Description

PROSOCO® R-Guard® Cat 5™ Rain Screen is fluid applied, waterproofing and air and water barrier membrane combining the best of silicone and polyurethane properties. This single component, Silyl-Terminated-Polymer (STP) is specially formulated to meet the unique requirements of pressure-equalized rain screen construction.

R-Guard Cat 5 Rain Screen is sprayed or roller applied to produce a highly durable, seamless, elastomeric weatherproof membrane on exterior sheathing behind open-jointed or vented rain screen cladding. Cat 5 Rain Screen is proven to prevent water and air penetration of the building envelope in conditions ranging from every day weather to the drenching rains and 155 mph winds of a Category 5 hurricane.

Cat 5 Rain Screen can be applied in unfavorable weather conditions to dry or damp surfaces, eliminating many weather-related construction delays and accelerating the “drying in” of new buildings. The durable, elastomeric membrane adheres to most surfaces, is immediately waterproof and is compatible with most sealants and waterproofing or air barrier components.

Typical Technical Data

FORM: viscous liquid, mild odor; dark bronze color

SPECIFIC GRAVITY: 1.26 to 1.33

pH: Not applicable

WEIGHT/GALLON: 10.75 pounds per gallon

TOTAL SOLIDS: 99 percent

FLASH POINT: greater than 200 degrees Fahrenheit (greater than 93 degrees Celsius)

FREEZE POINT: Not applicable

SHELF LIFE: 1 year in tightly sealed, unopened container

VOC CONTENT: less than 30 grams per Liter. Complies with all known national, state and district AIM VOC regulations.

Limitations

- Not for use as a liquid flashing membrane.
- Not for use with Insulated Concrete Forms. Contact PROSOCO for recommendations.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations which are continuously immersed in water.

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Installation

Before applying, read "Preparation" in the Manufacturer's Product Data Sheet for R-Guard Cat 5 Rain Screen. Refer to the Product Data Sheet for additional information about application and equipment requirements.

Use R-Guard Cat 5 Rain Screen in concentrate. Do not dilute or alter. Mix well with a low-speed drill and Jiffy Mixer. Mix well from top to bottom and side-to-side for a minimum of 3 minutes. Avoid mixing air into the membrane.

Application Instructions

1. With the spray gun 12 to 18 inches from the surface, spray apply R-Guard Cat 5 Rain Screen to exterior wall assembly at 15 wet mils using a crosshatch spray patten. Ensure there are no pinholes, voids or gaps in the membrane. Alternatively, roller apply using vertical strokes with a slight diagonal slant ensuring coverage that is free of pinholes, voids and gaps.
2. Seal masonry ties and properly prepared penetrations as work progresses.
3. Allow product to cure and dry. For cladding gaps greater than 1 inch, it is recommended to apply a second coat in the same manner as the first coat and allow product to cure and dry.
4. Inspect membrane before installing cladding to ensure a void- and pinhole-free surface. Repair any deep gouges, punctures, or damaged areas with FastFlash® or Joint & Seam Filler.

SPECIFIER NOTE: If air or surface temperatures exceed 95 degrees Fahrenheit (35 degrees Celsius), apply to shaded surfaces and before daytime air and surface temperatures reach their peak.

SPECIFIER NOTE: Some sheathing will require additional material to achieve a continuous coating. Inspect surface after application and touch-up as needed. CMU, OSB and exceptionally porous gypsum sheathing may require more than two coats.

SPECIFIER NOTE: If the surface of the primary air barrier or liquid flashing membrane is damaged during construction, remove all loose surface contaminants before selective re-coating with additional FastFlash®, Joint & Seam Filler, or Cat 5 Rain Screen.

SPECIFIER NOTE: Overlapping repairs, penetration treatments, transitions, rigid flashing and other air barrier components ensures positive drainage and continuity of the air and water-resistive barrier.

Dry Time

At 70 degrees Fahrenheit (21 degrees Celsius) and 50 percent relative humidity, Cat 5 Rain Screen skins in approximately 2 hours and dries in approximately 12 hours when applied at 15 mil thickness.

SPECIFIER NOTE: Low temperatures and low relative humidity slow dry time. Wind, high temperatures and high humidity accelerate drying.

Typical Coverage

Coverage rates vary depending on surface porosity, moisture uptake and other factors. Cat 5 Rain Screen is sold in 5-gallon containers:

- Exterior Gypsum Board, OSB and Plywood: 50 to 100 square feet per gallon
- CMU: 50 to 80 square feet per gallon

SPECIFIER NOTE: Actual rates must be determined through mock-up applications.

SPECIFIER NOTE: Some gypsum sheathing products, OSB and CMU may require additional material to achieve hide and the desired mil thickness for a pinhole free coating. In those cases, more than two coats may be required.

Cleanup

Clean tools and equipment immediately using mineral spirits or similar solvent. Do not allow Cat 5 Rain Screen to sit idle in the sprayer for more than 15 minutes.