



# Cat 5®

## *EXTREME weather air and water-resistive barrier*

Cat 5\* is part of the family of PROSOCO R-GUARD® products developed to prevent the unwanted movement of water and air through building envelopes. Utilize Cat 5® as the primary air barrier over above grade structural surfaces prepared with R-GUARD Joint & Seam Filler and R-GUARD FastFlash®.

### **OVERVIEW**

PROSOCO R-GUARD® Cat 5® Air & Water-Resistive Barrier is a fluid applied, waterproofing and air barrier membrane that combines the best of silicone and polyurethane properties. This single component, 98% solids Silyl-Terminated-Poly-Ether (STPE) is roller applied to produce a highly durable, seamless, elastomeric weatherproofing membrane on structural sheathing and back-up CMU walls. Cat 5® is proven to prevent water and air penetration of the building envelope in conditions ranging from everyday weather to the drenching rains and 155 mph winds of a Category 5 hurricane.

Cat 5® can be applied in unfavorable weather conditions to dry or damp substrates. This feature eliminates many weather-related construction delays and accelerates the "drying in" of new buildings. The durable, elastomeric membrane adheres to most surfaces, is immediately waterproof and is compatible with most paints, sealants and self-adhered waterproofing or air barrier components.

Use Cat 5® as a high-performing water-resistive barrier or as part of a continuous, building-wide air barrier system. R-GUARD Cat 5® complements conventional waterproofing or air barrier components.

Appropriate for vertical above grade applications to structural sheathing, CMU, architectural metals, painted metals, glass, PVC, FRP, EPDM, and most other building materials.

### **SPECIFICATIONS**

For all PROSOCO product specifications visit [www.prosoco.com](http://www.prosoco.com) and click on "SpecBuilder" or "Solution Finder."

### **ADVANTAGES**

- Solvent free. Isocyanate free. Complies with all VOC regulations.
- Silane functional polymer provides superior long term adhesion, crack bridging and weathering characteristics. Self seals fastener penetrations.
- Bonds to most common building materials without priming to produce a durable, structural, weatherproof membrane which will not tear or displace when subjected to wind loads during construction. Easy to repair if damaged.
- Will not tear or lose effectiveness when exposed to weather during construction.
- May be exposed to weather for up to 6 months without compromising performance. In ventilated rain screen applications, Cat 5® has indefinite UV stability.
- Single component – saves time.
- Easy roller application in all climates.
- Produces an opaque membrane when installed at the recommended 12 wet mils to simplify inspection and quality control.
- Bonds and cures in wet weather and on damp substrates.

- Paintable with most paints after 2 hours. Compatible with most urethane, silicone and acrylic sealants and coatings.
- No shrinkage. No staining. No yellowing.
- Breathable. Allows damp surfaces to dry.
- Will not support mold growth.
- Positively screened for successful performance under ASTM-E-84.
- Stops penetration of air and water under normal and extreme weather conditions.

### **Limitations**

- Not for use as a structural sealant. Use R-GUARD AirDam®.
- Not for use as a liquid flashing membrane. Use R-GUARD FastFlash®.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations designed to be continuously immersed in water.

### **REGULATORY COMPLIANCE**

#### **VOC Compliance**

PROSOCO R-GUARD® Cat 5® is compliant with the following national, state and district VOC regulations:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

# Cat 5®

## TYPICAL TECHNICAL DATA

R-GUARD CAT 5®	
FORM	adobe brown heavy liquid
SPECIFIC GRAVITY	1.5–1.7
pH	Not applicable
WT/GAL	13.312 lbs
ACTIVE CONTENT	98%
TOTAL SOLIDS	98%
VOC CONTENT	30 g/L maximum
FLASH POINT	>200°F (>93°C)
FREEZE POINT	Not applicable
SHELF LIFE	1 year in tightly-sealed, unopened container

## CURED PROPERTIES

Thickness	Opaque @ 12 mils
Hardness, Shore A	20–25 (ASTM C 661)
Tensile Strength	110 psi (ASTM D 412)
Elongation at Break	300% (ASTM D 412)
Water Vapor Transmission	23 @ 12 mils (ASTM E 96)
Peel Strength	30 pli (ASTM D 412)
Shrinkage	None

## PERFORMANCE AT 12 MILS

Air Infiltration	Meets and exceeds air barrier performance requirements. (ASTM E 2178; ASTM E 283)
Structural Performance	Withstands positive and negative wind loads. (ASTM E 330)
Water Penetration (static pressure)	No penetration. (ASTM E 331)
Water Penetration (cyclical static air pressure difference)	No penetration. (ASTM E 547)

\*PROSOCO R-GUARD® Cat 5® utilizes Wet-Flash® formulations developed by Building Envelope Innovations, LLC.

## PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion.

Protect people, vehicles, property, plants and all other surfaces not intended to receive Cat 5®.

Remove and replace damaged sheathing.

On structural sheathing, repair cracks larger than ½-inch.

Fill open joints, seams and cracks using R-GUARD Joint & Seam Filler.

In rough openings, prime all raw gypsum board edges with R-GUARD GypPrime.

Use R-GUARD Joint & Seam Filler to fill and tool all inside corners to ensure positive drainage.

Flash rough openings of structural walls using R-GUARD FastFlash®.

Let sheathing joint and seam fillers skin over before applying R-GUARD Cat 5®.

## Surface and Air Temperatures

Surface and ambient temperatures should be 40°F (4°C) and rising and below 110°F (43°C) during application and drying. Wind and high temperatures will accelerate drying of Cat 5®. **Hot Weather**

**Precautions:** If air or surface temperatures exceed 95°F (35°C), apply Cat 5® to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Surfaces may be damp but must be free of standing water before application. Keep containers closed and out of direct sunlight when not in use.

Though R-GUARD Cat 5® may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost.

## ALWAYS TEST

**ALWAYS TEST** a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

## Equipment

Apply using standard 1/4 inch to 3/8 inch nap rollers.

## Storage & Handling

Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80°F (27°C) R-GUARD Cat 5® has a shelf life of 12 months after the date of manufacture. This shelf life assumes upright storage of factory-sealed containers. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

## APPLICATION

Before use, read "Preparation" and "Safety Information."

## Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. Mix well before use with a low-speed drill and paddle to avoid mixing air into the membrane.

## Sequencing

When the construction sequence requires the rough opening to be waterproofed **after** installation of the primary air barrier, detail the rough opening using R-GUARD Joint & Seam Filler followed by R-GUARD FastFlash®, in accordance with printed literature. **It is not necessary to re-coat the FastFlash® flashing membrane with the primary air barrier.**

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## Coverage Rates

Theoretical coverage rates are calculated. Practical coverage rates are based on field experience, applied to irregular surfaces with varying surface textures.

PROSOCO R-GUARD® Cat 5® is sold in 5 gallon containers.

Air and Water-Resistive Barrier Membrane Estimator	
R-GUARD Cat 5® (applied at 12–15 mils)	
Theoretical	525–650 sq.ft. per 5-gal
Practical: Sheathing	400–525 sq.ft. per 5-gal
Practical: CMU	300–400 sq.ft. per 5-gal

## Application Instructions

- Roller apply to structural walls or CMU back-up using vertical strokes with a slight diagonal slant. Ensure there are no pinholes, voids or gaps in the membrane.
- Seal masonry ties and other penetrations as work progresses.
- Apply to recommended thickness of 12 mils. Proper thickness is reached when coating is opaque. If air or surface temperatures exceed 95°F (35°C), apply Cat 5® to shaded surfaces and before daytime air and surface temperatures reach their peak.
- Allow product to cure and dry. Wind, high temperatures and high humidity will accelerate drying. Low temperatures and low relative humidity will extend cure time. Mist treated surfaces with fresh water to accelerate cure.
- Inspect membrane before covering. Repair any punctures, translucent or damaged areas. 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 Cat 5®. Alternatively, fill deep gouges with R-GUARD Joint & Seam Filler. Repair surface damage using R-GUARD FastFlash®. Overlap repairs, penetration treatments, transitions, rigid flashing and other air barrier components to ensure positive drainage and continuity of the air and water-resistive barrier.

## Cleanup

Clean tools and equipment with mineral spirits or similar solvent immediately after use.

## Curing and Drying

At 70°F (21°C) and 50% relative humidity, product skins in approximately 2 hours and cures in approximately 12 hours when applied at 12 mil thickness.

R-GUARD Cat 5® is moisture curing. Low temperatures and low relative humidity slow cure time. Wind, high temperatures and high humidity accelerate drying.

## SAFETY INFORMATION

PROSOCO R-GUARD® Cat 5® contains calcium carbonate and may cause eye and skin irritation. Use with adequate ventilation, safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

### First Aid

**Eye Contact:** Immediately rinse eyes with water. Remove any contact lenses. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Continue flushing eyes with running water for at least 15 minutes. Get medical attention if irritation develops.

**Skin Contact:** Wash affected areas with large amounts of running water and soap for 15 minutes. Remove contaminated clothing and shoes. Wash clothing and decontaminate shoes before re-use. Get medical attention if irritation develops and persists.

**Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start mouth-to-mouth artificial respiration or use a bag mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and if available, give supplemental oxygen.

**Ingestion:** DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**24-Hour Emergency Information: INFOTRAC at 800-535-5053**

## BEST PRACTICES

Surfaces should be clean and in good repair before application. Most sheathing and concrete masonry can be cleaned with Enviro Klean® 2010 All Surface Cleaner. Information is available by calling Technical Customer Care toll-free at 800-255-4255.

R-GUARD Cat 5® bonds tenaciously. Carefully protect all nearby surfaces not intended for treatment. Immediately clean up incidental contact using mineral spirits or similar solvent.

On R-GUARD Cat 5® projects, always use Joint & Seam Filler, FastFlash® and AirDam® where required. Do not substitute.

Prepare all rough openings with R-GUARD Joint & Seam Filler and FastFlash®. Allow to skin over before installing Cat 5®. Overlap Cat 5® onto FastFlash® by 2 inches or more.

A slightly diagonal vertical application stroke provides best coverage.

Ensure proper coverage (minimum 12 wet mils) by applying sufficient R-GUARD Cat 5® to achieve an opaque membrane.

**Hot Weather Precautions:** If air or surface temperatures exceed 95°F (35°C), apply Cat 5® to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Surfaces may be damp but must be free of standing water before application. Keep containers closed and out of direct sunlight when not in use.

Wind, high temperatures and high humidity accelerate drying. At 70°F (21°C) and 50% relative humidity, product will skin in approximately 2 hours and cure in approximately 12 hours when applied at 12 mil thickness.

Low temperatures and low relative humidity will extend cure time. Mist surfaces with fresh water to accelerate cure.

Common installation guidelines depicting use of PROSOCO R-GUARD® products are available at [www.prosoco.com](http://www.prosoco.com).

To schedule field technical support, contact your PROSOCO Technical Customer Care toll-free at 800-255-4255. Field visits by PROSOCO personnel are for the purpose of making technical recommendations only. **PROSOCO is not responsible for providing job site supervision or quality control. Proper application is the responsibility of the applicator.**

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## **WARRANTY**

Information and recommendations are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made because we cannot anticipate every application or variations encountered in building surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including**

**without limitation the implied warranties of merchantability or fitness for particular purpose.** PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

## **CUSTOMER CARE**

Factory personnel are available for product, environmental and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at [www.prosoco.com](http://www.prosoco.com), for the name of the PROSOCO R-GUARD® representative in your area.