

07 00 00 Thermal & Moisture Protection

07 27 00 Air Barriers
 07 27 26 Fluid Applied Membrane Air Barriers
 07 27 29 Air Barrier Coatings
 07 25 00 Weather Barriers

PRODUCT DATA SHEET

PROSOCO
 SINCE 1939



Spray Wrap MVP

fluid-applied air & water-resistive barrier

R-Guard Spray Wrap MVP is part of the family of PROSOCO R-Guard® products developed to prevent the unwanted movement of water and air through building envelopes. Utilize Spray Wrap MVP as the primary air barrier over above grade wall assemblies prepared with R-Guard Joint & Seam Filler and/or R-Guard FastFlash®.

OVERVIEW

PROSOCO R-Guard® Spray Wrap MVP is a fluid-applied air and water-resistive barrier that stops air and water leakage in cavity wall, masonry veneer construction, as well as in stucco, EIFS and most other building wall assemblies. Once on the substrate, the easily applied liquid quickly dries into a rubberized, highly durable, water-resistant, vapor-permeable membrane.

Compared to self-adhered or mechanically-fastened sheet wraps, easy-to-use R-Guard Spray Wrap MVP provides superior protection against water intrusion, while minimizing potential for condensation within walls. R-Guard Spray Wrap MVP minimizes the potential for condensation and allows accumulated moisture to dry while reducing energy costs and lowering the risk of mold and mildew.

Use Spray Wrap MVP as a high-performing water-resistive barrier or as part of a continuous, building-wide air barrier system. The durable membrane conforms and adheres to common building surfaces and is compatible with most paints, sealants and self-adhered waterproofing or air barrier components.

Appropriate for vertical, above-grade applications to exterior sheathing, CMU, cast concrete and most other common building materials.

SPECIFICATIONS

For all PROSOCO product specifications visit www.prosoco.com.

ADVANTAGES

- Reduces condensation and energy loss caused by air leaks through the wall assembly.
- Minimizes risk of water damage to sheathing and associated repair or replacement costs.
- Allows moisture which accumulates within the wall assembly to dry.
- Vapor permeable with low air infiltration rate.
- Fast and easy installation reduces labor costs.
- No air leakage or water intrusion between the sheathing and R-Guard Spray Wrap MVP – stable under air and wind pressure loads.
- Seamless – no tears, holes, or improperly lapped joints to compromise performance.
- Combines the durability and flexibility of a rubberized coating with the speed and ease of a water-based, fluid-applied application. Won't tear or lose effectiveness when exposed to weather during construction.
- May be exposed to weather for up to 6 months without compromising performance.
- Time-saving, single component is easy to install with conventional spray equipment. Long pot life. Water cleanup.
- Color Coded – simplifies inspection and quality control.
- Low odor and non-toxic. Complies with all VOC regulations.
- Compatible with most paints, sealants and coatings.

Limitations

- Not for use at surface or air temperatures below 40°F (4°C) or above 100°F (38°C) unless Hot Weather Precautions are followed. See "Surface and Air Temperatures."
- Not for use below-grade or in locations which are designed to be continuously immersed in water.
- Not for use as an exterior finish.

REGULATORY COMPLIANCE**VOC Compliance**

PROSOCO R-Guard® Spray Wrap MVP is compliant with the following national, state and district AIM 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

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TYPICAL TECHNICAL DATA

R-GUARD SPRAY WRAP MVP

FORM	Batter like mixture, pink color
SPECIFIC GRAVITY	1.31
pH	8.5 – 9.5
WT/GAL	12.2 lbs
ACTIVE CONTENT	No Data
TOTAL SOLIDS	68 – 72%
VOC CONTENT	18 g/L
FLASH POINT	not applicable
FREEZE POINT	32°F (0°C)
SHELF LIFE	2 years in tightly sealed, unopened container

Please obtain the PROSOCO R-Guard® Spray Wrap MVP Product Test Results sheet for a complete list of performance test results.

Illustrations depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.

PREPARATION

Protect people, vehicles, property, plants and all other surfaces not intended to receive Spray Wrap MVP. To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion. Painted surfaces are not acceptable for application.

Concrete Surfaces: Must have cured a minimum of 28 days prior to application. If form release agents or curing compounds exist on the surface, remove with the proper PROSOCO cleaner.

Brick/Masonry Surfaces: if joints are not struck flush, multiple coats may be required.

Sheathing: Remove and replace damaged sheathing. Surfaces to be coated must be continuous. On exterior sheathing, treat cracks with R-Guard Joint & Seam Filler and/or R-Guard FastFlash®, as needed. Sheathing gaps must be less than 1/4 inch. For gaps larger than 1/4 inch, apply R-Guard FastFlash® with backer rod, or R-Guard Joint & Seam Filler. Gap wood-based sheathing per manufacturer's recommendations, typically 1/8 inch minimum. Consult a structural engineer for all moving cracks, and repair as needed.

Fill, Bridge & Flash

1. Fill surface defects and over driven fasteners with R-Guard Joint & Seam Filler and/or FastFlash®.
2. Seal cut edges of gypsum board sheathing in rough openings with fast-drying R-Guard GypPrime. Gun and spread R-Guard Joint & Seam Filler and/or FastFlash® into all inside corners, cracks, open joints and seams in rough openings, as needed.
3. Use R-Guard FastFlash® to coat the improved rough opening and out onto the exterior wall assembly face 4–6 inches (100–152 mm), creating a continuous waterproof membrane free of voids or pinholes.
4. Let all joint and seam fillers and rough opening treatments skin over before applying R-Guard Spray Wrap MVP.

See individual product data sheets and R-Guard Installation Guidelines for more information.

Surface and Air Temperatures

Surface and ambient temperatures should be 40–100°F (4–38°C). Air and substrate temps must be at least 40°F (4°C) and rising, and remain so for a minimum of 24 hours. Wind and high temperatures will accelerate drying.

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.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply 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. Cover open pails with a wet towel as needed to prevent skinning.

Equipment

Mix R-Guard Spray Wrap MVP with a low-speed drill and clean mixing paddle. When roller applying, a maximum 3/4 inch (19 mm) nap roller is recommended.

R-Guard Spray Wrap MVP is compatible with GRACO and Titan airless spray equipment with the following specifications:

- Minimum 1.5–2 gallons output Immersion Feed
- *Minimum hose diameter of 3/8-inch.
NOTE: A 1/4-inch x 3-foot whip hose may be used for ergonomic purposes. Run 3/8-inch ID hose all the way to the 3-foot whip hose.
- Minimum tip size of 0.027–0.031.
- Minimum pressure requirement to spray of 2,000 psi at the gun with an airless sprayer rated no lower than 3,300 psi.
- Remove all filters in sprayer and gun before application.

*If hoses longer than 50 feet are required to a maximum hose length of 150 feet, use 75 feet of 1/2-inch hose and 75 feet of 3/8-inch hose with a 3 foot 1/4-inch whip hose.

CAUTION needs to be taken to prevent material from skinning during application to avoid partially dried material from being sucked into the pump equipment and causing excessive tip plugging. Please contact your local PROSOCO sales representative or Customer Care with questions.

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Storage and Handling

Store in a cool dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work is complete. Do not mix or alter with other chemicals. Shelf life assumes upright storage of factory sealed containers. Do not double stack pallets. Dispose of unused product and containers in accordance with local, state and federal regulations.

APPLICATION

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

Dilution & Mixing

Do not dilute or alter. Mix well before use with a low-speed drill and clean mixing paddle. Avoid mixing air into the membrane. Do not add water, over mix or add accelerators or retarders.

Coverage Rates

Coverage rates will vary depending on surface porosity, moisture uptake, and other factors. Unless otherwise required by the referenced test method, test results cited on the Product Test Data were achieved when the product was applied at 10 wet mils to DensGlass® gold fiberglass mat gypsum sheathing. Many gypsum sheathing products require additional material to achieve hide and the desired mil thickness for a pinhole free coating. In some cases two coats may be required. Actual rates must be determined through mock-up applications. **For more information regarding coverage rates as it pertains to glass-mat sheathing, please consult the AMT Laboratories Technical Bulletin available at www.prosoco.com/AirBarriers.**

PROSO CO R-Guard® Spray Wrap MVP is packaged in 5-gallon containers.

R-GUARD SPRAY WRAP MVP	COVERAGE RATES
EXTERIOR GYPSUM BOARD* OSB* PLYWOOD	50-100 SQ.FT. PER GALLON
CMU	30-60 SQ.FT. PER GALLON PER COAT

*Oriented Strand Board and some gypsum sheathing will require additional material due to varying substrate porosity.

Application Instructions

Prepare all joints, seams, cracks, fastener penetrations and rough openings prior to application of the primary air barrier. See appropriate product data sheets and R-Guard Installation Guidelines for more information.

Exterior Sheathing

1. Apply Spray Wrap MVP to Gypsum, Plywood and OSB sheathing to achieve a continuous, pinhole free coating. Some gypsum sheathing will require additional material due to varying substrate porosity.
2. When spray applying, back roll as necessary to ensure there are no pinholes, voids or gaps in the membrane.
3. Inspect membrane before covering. Repair any punctures or damaged areas by applying additional Spray Wrap MVP. 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.

CMU Wall Construction

1. Apply sufficient Spray Wrap MVP to fill and cover the entire face of the exterior wall assembly. Let dry.
2. Apply a second coat of Spray Wrap MVP to achieve hide. The finished application must be continuous and free of voids and pinholes. If necessary, back roll spray to achieve a void- and pinhole-free surface. Take special care to achieve full coverage around wall ties or surface irregularities.
3. Inspect membrane before covering. Repair any punctures or damaged areas by applying additional Spray Wrap MVP. 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.

Curing and Drying

Complete drying times vary with temperature, humidity and surface conditions. Protect from rain or freezing until completely dry. At room temperature, R-Guard Spray Wrap MVP dries to the touch in 1 hour and can be re-coated in 2 hours. Product drying time is 12 hours at room temperature.

Cleanup

Clean tools and equipment with soapy water immediately after use. Mechanically remove dried material.

BEST PRACTICES

PROSO CO R-Guard® Joint & Seam Filler, FastFlash® and AirDam® are recommended for improved performance of all R-Guard air- and water-resistive barrier coatings.

Though R-Guard Spray Wrap MVP can be located anywhere in the wall assembly, the ideal location is on the cavity-facing side of the exterior sheathing or CMU backup. This positions the air barrier to accommodate transitions with other building components. It also lets the air barrier perform as a water-resistive barrier.

It is not necessary to apply R-Guard Spray Wrap MVP to the inside of rough openings prepared with FastFlash®.

Always use two coats of R-Guard Spray Wrap MVP on CMU walls.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply 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. Cover open pails with a wet towel as needed to prevent skinning.

Coverage rates will vary depending on surface porosity, moisture uptake, and other factors. Many gypsum sheathing products require additional material to achieve hide and the desired mil thickness for a pinhole free coating. In some cases two coats may be required. Actual rates must be determined through mock-up applications. **For more information regarding coverage rates as it pertains to glass-mat sheathing, please consult the AMT Laboratories Technical Bulletin available at www.prosoco.com/AirBarriers.**

Common installation guidelines depicting use of PROSO CO R-Guard® products are available at www.prosoco.com.

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

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SAFETY INFORMATION

PROSOCO R-Guard® Spray Wrap MVP contains calcium carbonate and acrylic polymer. May cause 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

Ingestion: Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician, if necessary.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water.

Inhalation: Remove to fresh air. If symptoms persist, call a physician.

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

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 masonry 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, for the name of the PROSOCO R-Guard® representative in your area.

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ICC-ES AC212¹
ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING

Test	Method	Criteria	Results
Tensile Bond	ASTM C 297	Minimum 15 psi (105 kPa)	Pass
Freeze-Thaw	ICC-ES AC212	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
Water Resistance	ASTM D 2247	No cracking, checking, crazing, erosion, delamination, or other deleterious effects	Pass
Water Vapor Transmission	ASTM E 96 Wet Cup	Measure	34 perms at 10 mils
Water Penetration	ASTM E 331	No visible water penetration at the sheathing joints as viewed from the back of the panel	Pass
Structural, Racking, Restrained Environmental Conditioning & Water Penetration	ASTM E 1233 A ASTM E 72 ICC-ES AC212 ASTM E 331	No cracking of the coating	Pass
Weathering	ICC-ES AC212 AATCC ² 127	No cracking of the coating; no water penetration	Pass
Air Permeance	ASTM E 2178	≤ 0.02 L / s·m ² at 75 Pa (≤ 0.004 cfm / ft ² at 1.57 psf)	Pass: <0.001 L / s·m ² at 75 Pa (0.0002 cfm / ft ² at 1.57 psf)

ABAA: AIR BARRIER ASSOCIATION OF AMERICA ACCEPTANCE CRITERIA FOR LIQUID APPLIED MEMBRANES

Test	Method	Criteria	Results
Air Permeance	ASTM E 2178	≤ 0.02 L / s·m ² at 75 Pa (≤ 0.004 cfm / ft ² at 1.57 psf)	Pass: <0.001 L / s·m ² at 75 Pa (0.0002 cfm / ft ² at 1.57 psf)
Air Leakage of Air Barrier Assemblies	ASTM E 2357	≤ 0.2 L / s·m ² at 75 Pa (≤ 0.04 cfm / ft ² at 1.57 psf)	Pass: <0.001 L / s·m ² at 75 Pa (0.0002 cfm / ft ² at 1.57 psf)
Water Resistance	AATCC ² 127	No water infiltration after exposure to 55 cm head of water for 5 hours	Pass
Pull Adhesion	ASTM D 4541	110 kPa (16 psi) or substrate failure	Pass
ICC-ES AC212	Entire Suite of Tests	Pass	Pass
Water Vapor Permeance at applied thickness	ASTM E 96	Report in Ng/(Pa·s·m ²)	Wet: 1944 Ng/(Pa·s·m ²)

FIRE TESTING

Test	Method	Criteria	Results
Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies	NFPA ³ 285	Must resist flame propagation and flame spread	Pass
Surface Burning Characteristics	ASTM E 84	Criteria for ICC and NFPA Class A Building Material: Flame Spread ≤ 25 Smoke Developed ≤ 450	Meets Class A Building Material: Flame Spread: 5 Smoke Developed: 5

OTHER

Windstorm Resistance	TAS ⁴ 201-94 TAS ⁴ 202-94 TAS ⁴ 203-94	Must meet requirements for a ±70 psf design pressure	Pass
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NOTES:

- 1: International Code Council Evaluation Service Acceptance Criteria 212
- 2: American Association of Textile Chemists and Colorists
- 3: National Fire Protection Association
- 4: Testing Application Standard – Florida Building Code