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.

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

SPECIFICATIONS
For all PROSOCO product specifications visit www.prosoco.com.
**TYPICAL TECHNICAL DATA**

<table>
<thead>
<tr>
<th>R-GUARD SPRAY WRAP MVP</th>
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<tr>
<td><strong>FORM</strong></td>
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<td><strong>SPECIFIC GRAVITY</strong></td>
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<td><strong>pH</strong></td>
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<td><strong>WT/GAL</strong></td>
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<td><strong>ACTIVE CONTENT</strong></td>
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<td><strong>TOTAL SOLIDS</strong></td>
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<td><strong>VOC CONTENT</strong></td>
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<td><strong>FLASH POINT</strong></td>
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<tr>
<td><strong>FREEZE POINT</strong></td>
</tr>
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<td><strong>SHELF LIFE</strong></td>
</tr>
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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 R-Guard 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.

**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.

**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.

**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 gallon per minute output.
- Minimum hose width of 3/8 inch.
- 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.

Hopper Gun requirements: 3/16 to 1/4 inch (6–6.5 mm) orifice, 23–25 psi.
Spray Wrap MVP

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.

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

<table>
<thead>
<tr>
<th>R-GUARD SPRAY WRAP MVP</th>
<th>COVERAGE RATES</th>
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<tbody>
<tr>
<td><strong>EXTERIOR GYPSUM BOARD</strong></td>
<td>50–100 SQ. FT. PER GALLON</td>
</tr>
<tr>
<td><strong>OSB</strong></td>
<td>50–100 SQ. FT. PER GALLON</td>
</tr>
<tr>
<td><strong>PLYWOOD</strong></td>
<td>50–100 SQ. FT. PER GALLON</td>
</tr>
<tr>
<td><strong>CMU</strong></td>
<td>30–60 SQ. FT. PER GALLON PER COAT</td>
</tr>
</tbody>
</table>

*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-resistant 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-resistant 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 recoated 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**
PROSOCO 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-resistant 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 PROSOCO R-Guard® products are available at 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.
Spray Wrap MVP

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.
### ICC-ES AC212 ¹
**Acceptance Criteria for Water-Resistant Coatings Used as Water-Resistant Barriers Over Exterior Sheathing**

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Criteria</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Bond</td>
<td>ASTM C 297</td>
<td>Minimum 15 psi (105 kPa)</td>
<td>Pass</td>
</tr>
<tr>
<td>Freeze-Thaw</td>
<td>ICC-ES AC212</td>
<td>No cracking, checking, crazing, erosion, delamination or other deleterious effects</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>ASTM D 2247</td>
<td>No cracking, checking, crazing, erosion, delamination or other deleterious effects</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E 96</td>
<td>Measure</td>
<td>34 perms at 10 mils</td>
</tr>
<tr>
<td>Water Penetration</td>
<td>ASTM E 331</td>
<td>No visible water penetration at the sheathing joints as viewed from the back of the panel</td>
<td>Pass</td>
</tr>
<tr>
<td>Structural, Racking, Restrained Environmental Conditioning &amp; Water Penetration</td>
<td>ASTM E 1233 A ASTM E 72 ICC-ES AC212 ASTM E 331</td>
<td>No cracking of the coating</td>
<td>Pass</td>
</tr>
<tr>
<td>Weathering</td>
<td>ICC-ES AC212 AATCC’ 127</td>
<td>No cracking of the coating; no water penetration</td>
<td>Pass</td>
</tr>
<tr>
<td>Pull Adhesion</td>
<td>ASTM D 4541</td>
<td>110 kPa (16 psi) or substrate failure</td>
<td>Pass</td>
</tr>
<tr>
<td>ICC-ES AC212</td>
<td>Entire Suite of Tests</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Vapor Permeance at applied thickness</td>
<td>ASTM E 96</td>
<td>Report in Ng/(Pa·s·m²)</td>
<td>Wet: 1944 Ng/(Pa·s·m²)</td>
</tr>
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### ABAA: Air Barrier Association of America Acceptance Criteria for Liquid Applied Membranes

<table>
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<tr>
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<tbody>
<tr>
<td>Air Permeance</td>
<td>ASTM E 2178</td>
<td>≤ 0.02 L/s·m² at 75 Pa (≤ 0.004 cfm/ft² at 1.57 psf)</td>
<td>Pass: &lt;0.001 L/s·m² at 75 Pa (0.0002 cfm/ft² at 1.57 psf)</td>
</tr>
<tr>
<td>Air Leakage of Air Barrier Assemblies</td>
<td>ASTM E 2357</td>
<td>≤ 0.2 L/s·m² at 75 Pa (≤ 0.04 cfm/ft² at 1.57 psf)</td>
<td>Pass: &lt;0.001 L/s·m² at 75 Pa (0.0002 cfm/ft² at 1.57 psf)</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>AATCC’ 127</td>
<td>No water infiltration after exposure to 55 cm head of water for 5 hours</td>
<td>Pass</td>
</tr>
<tr>
<td>Pull Adhesion</td>
<td>ASTM D 4541</td>
<td>110 kPa (16 psi) or substrate failure</td>
<td>Pass</td>
</tr>
<tr>
<td>ICC-ES AC212</td>
<td>Entire Suite of Tests</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Vapor Permeance at applied thickness</td>
<td>ASTM E 96</td>
<td>Report in Ng/(Pa·s·m²)</td>
<td>Wet: 1944 Ng/(Pa·s·m²)</td>
</tr>
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### FIRE TESTING

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<tr>
<td>Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies</td>
<td>NFPA’ 285</td>
<td>Must resist flame propagation and flame spread</td>
<td>Pass</td>
</tr>
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</table>

### OTHER

<table>
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<tr>
<th>Test</th>
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<tbody>
<tr>
<td>Windstorm Resistance</td>
<td>TAS’ 201-94 TAS’ 202-94 TAS’ 203-94</td>
<td>Must meet requirements for a ±70 psf design pressure</td>
<td>Pass</td>
</tr>
</tbody>
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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