



PROSOCO®

R-Guard®

AIR & WATER BARRIER



INDOOR ADVANTAGE GOLD
BUILDING MATERIALS

FastFlash®

PROSOCO R-Guard® FastFlash® is a waterproofing, adhesive and detailing compound for air barrier applications that combines the best characteristics of silicone and polyurethane. This single-component, Silyl-Terminated-Polymer (STP) is easy to gun, spread-and-tool, or roller apply to produce a highly durable, seamless, elastomeric flashing membrane. Allows for same day installation of windows, doors and other wall assembly, waterproofing or air barrier components.

Suitable for all climates, FastFlash® bonds directly to damp or dry surfaces and cures under a variety of weather conditions. It dramatically reduces surface preparation time by eliminating the need for reinforcing tapes at sheathing joints, inside and outside corners. It simplifies the process of producing watertight details in new or existing construction.

Use FastFlash® as part of a continuous, building-wide air barrier system, or to complement conventional waterproofing or air barrier components. Use FastFlash® to adhere, transition and counter-flash R-Guard SS ThruWall or other through-wall sheet flashing.

ADVANTAGES

- ICC Evaluation Service Report Nos. ESR-4363, ESR-3416 and ESR-4191.
- Available in Gun-Grade or Roller-Grade versions.
- Streamlines preparation by eliminating the need for joint reinforcing tapes.
- Less tackiness upon full cure.
- Silane functional polymer provides superior long term adhesion, crack bridging and weathering characteristics.
- Easy 12–15 wet mil application.
- Bonds to most common building materials without priming.
- Expanded substrate adhesion testing for the International Code Council (ICC-ESR-4363).
- Single component saves time.
- Produces a durable, weather-tight seal.
- Bonds and cures in wet weather, on damp substrates, and tolerates rain immediately after application.

- Will not tear or lose effectiveness when exposed to weather during construction.
- May be fully exposed to UV and weather for up to 12 months. If longer, contact for inspection.
- Compatible with most sealants and waterproofing or air barrier components.
- Solvent free. Isocyanate free. Phthalate free.
- No shrinkage. No staining. No yellowing.
- Breathable – allows damp surface to dry.
- Will not support mold growth.
- Illustration depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.

Limitations

- Not for use installing R-Guard SureSpan EX. See SureSpan EX product literature.
- Not for use as a structural sealant.
- Not for use in place of appropriate through-wall flashing. See R-Guard SS ThruWall product literature.
- Not for use below grade or in locations designed to be continuously immersed in water.
- May have slight incompatibility with some asphaltic materials or butyl adhesives. Always test first.

REGULATORY COMPLIANCE

VOC Compliance

R-Guard FastFlash® is compliant with the US Environmental Protection Agency's AIM VOC regulations. Visit www.prosoco.com/voccompliance to confirm compliance with individual district and state regulations.

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

24-Hour Emergency Information:

INFOTRAC at 800-535-5053

Product Data Sheet

R-Guard FastFlash®

TYPICAL TECHNICAL DATA

FORM	viscous paste, mild odor red color
SPECIFIC GRAVITY	1.40 – 1.55
pH	not applicable
WT/GAL	11.75 – 12.5 lbs
TOTAL SOLIDS	99%
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

Hardness, Shore A	35–45
Tensile Strength	>150 psi
Elongation at Break*	>350% ASTM D 412
Water Vapor Transmission	21 perms ASTM E 96
Corrosive Properties	Non-corrosive

*Elongation per ASTM D 412 is not a requirement of the Air Barrier Association of America's (ABAA) Acceptance Criteria for Liquid Applied Membranes nor is it a requirement of the International Code Council Evaluation Service's Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over exterior Sheathing (ICC-ES AC212). Elongation is not a requirement of the AAMA 714 Specification for Liquid Applied Flashing used to Create a Water-Resistive Seal Around Exterior Wall Openings. There is no data to support that certain levels of elongation must be achieved to perform as a fluid applied WRB or as a fluid applied flashing. Specifications should be based upon performance test results like those required from the referenced organizations. Refer to the R-Guard FastFlash® Product Test Results document for a complete list of performance test results.

PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface oxidation, surface coatings or films may adversely affect adhesion. Pressure-treated or fire-retardant wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of R-Guard products. Concrete must be in place 3-7 days and free of any curing compounds or form release agents before permeable R-Guard products are applied. Mortar

joints in CMU construction must have a minimum 3 day cure before being treated with R-Guard products.

If considering use on insulated concrete forms, the preferred method for cleaning is with water and low-pressure cleaning.

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

Remove and replace damaged sheathing.

In rough openings, and where appropriate, prepare all raw gypsum board edges with R-Guard PorousPrep. Apply to raw gypsum board edges in a thin, uniform coat according to published application instructions. Do not over apply. Allow to dry tack-free before application of R-Guard FastFlash® or other products.

Any gaps or joints greater than 1 inch should be structurally repaired or readied for R-Guard SureSpan EX transition extrusion.

Ensure positive drainage at all rough openings.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

Surface & Air Temperatures

Substrate and temperature conditions between 32°F (0°C) and 110°F (43°C) are required for proper curing and drying of material to take place.

Hot Weather Conditions/Precautions: When air or surface temperatures exceed 95°F (35°C), apply product to the shady side of structure before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Do not apply when substrate temperature exceeds 110°F (43°C).

Cold Weather Conditions/Precautions: Product may be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not begin to cure until temperatures reach 32°F (0°C) and remain above freezing. Keeping material stored in a heated environment prior to use and misting applied material with warm, fresh water will help in these conditions.

Low Humidity Conditions/Precautions: The process of curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surface will accelerate curing if necessary.

Though FastFlash® may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing

Product Data Sheet

R-Guard FastFlash®

water or frost. *Contact PROSOCO if conditions are questionable.* As with any coating, application to substrates with high moisture content may lead to blistering of the material.

Equipment

Reference the Gun-Grade or Roller-Grade Application Instructions for specific recommendations of appropriate equipment.

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 FastFlash® 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 GUN-GRADE FASTFLASH®

Read “Preparation” and the Safety Data Sheet before use.

Equipment

Apply Gun-Grade FastFlash® using a professional caulking gun and spread with a DRY joint knife, trowel, or spatula.

Do not use soapy water or solvent to help with the tooling process or to slick the surface profile.

Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. No mixing required.

Typical Coverage Rates

Coverage varies based on surface texture and irregularities. Gun-Grade R-Guard FastFlash® is sold in 29 oz tubes and 20 oz sausages.

- 22–28 sq.ft. per 29-oz tube applied at 12–15 mils
- 15–17 sq.ft. per 20-oz sausage applied at 12–15 mils

Gun-Grade FastFlash® Application Instructions

Filling Joints, Seams and Cracks,

Detailing Fastener Heads and Around Penetrations

1. Apply a bead of FastFlash® to all sheathing joints, seams and cracks and strike smooth with a DRY tool. Joint widths up to 1/4 inch may be treated with FastFlash® without backer rod. Treat joints ranging from 3/8 to 1 inch with backer rod and R-Guard Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with R-Guard SureSpan EX transition extrusion. Detail over wood knots, deep cracks or surface irregularities to complete the surface preparation

2. Use a DRY joint knife, trowel or spatula to tool and spread the product beyond the sheathing seams on each side to a thickness of 12–15 mils.
3. Spot fastener heads and strike with a DRY tool.
4. Allow to skin before installing other waterproofing or air barrier components.

Detailing & Waterproofing Rough Openings (Window and Door Penetrations)

1. Apply a bead of FastFlash® in each corner of the rough opening and at the sheathing-to-stud transition, then strike smooth with a DRY tool. Joint widths up to 1/4 inch may be treated with FastFlash® and no backer rod. Treat joints ranging from 3/8 inch to 1 inch with backer rod and R-Guard Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with R-Guard SureSpan EX transition extrusion.
2. Apply FastFlash® over the exterior inside framing of the rough opening and onto the exterior vertical wall surface 4–6 inches to create a 12–15 mil thick monolithic, pinhole-free flashing surface. **NOTE:** When using with existing sheet weather resistive barriers, extend FastFlash® 8–10 inches over the face of the exterior wall to ensure positive drainage.
3. Allow treated surfaces to skin before installing windows, doors and other wall assembly components.
4. Proceed to application of primary air and water barrier coating.

NOTE: Gun-Grade FastFlash® may be used to detail joints, seams and cracks at 3/8 inch width or less; however, R-Guard Joint & Seam Filler is more commonly used for these applications.

PROTECT

Apply R-Guard Spray Wrap MVP, Cat 5™, Cat 5™ Rain Screen, Spray Wrap Rain Screen, VB, or other waterproofing or air barrier component pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

1. Apply a minimum 3/8-inch bead to the top edge of R-Guard SS ThruWall or other flashing leg and strike with a DRY joint knife or caulking tool.
2. Apply and spread additional FastFlash® to create a monolithic “cap flash” flashing membrane that extends 2 inches (51 mm) up the vertical face of the exterior wall and down over the fastener heads of the SS ThruWall Termination Bar. This “liquid termination bar” helps secure the flashing and ensures positive drainage from the wall surface to the flashing.

Product Data Sheet

R-Guard FastFlash®

REPAIR

After applying R-Guard Spray Wrap MVP, Cat 5™, Cat 5™ Rain Screen, Spray Wrap Rain Screen, VB or other waterproofing or air barrier component, FastFlash® may be used to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

APPLICATION ROLLER-GRADE FASTFLASH®

Read “Preparation” and the Safety Data Sheet before use.

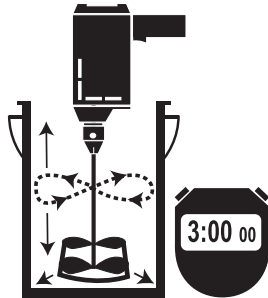
Equipment

Apply Roller-Grade version with a professional paint roller with a 3/8-inch nap.

Do not use soapy water or solvent to help with tooling or to slick the surface profile.

Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. Using a low-speed drill and paddle, mix well from top to bottom and side-to-side for a minimum of 3 minutes before use. Avoid mixing air into the product. Once opened, product should be used immediately.



Typical Coverage Rates

Coverage varies based on surface texture and irregularities. Roller-Grade FastFlash® is sold in 2-gallon pails.

- 50–100 sq.ft. (5–9 sq.m.) per gallon applied at 12–15 mils

Roller-Grade FastFlash® Application Instructions

Filling Joints, Seams and Cracks

Roller-Grade FastFlash® is not for use in filling joints, seams and cracks. Reference Application Instructions for Gun-Grade FastFlash® in this document.

Detailing & Waterproofing Rough Openings (Window and Door Penetrations)

1. Apply a bead of Gun-Grade FastFlash® in each corner of the rough opening and at the sheathing-to-stud transition, then strike smooth with a DRY tool. Joint widths up to 1/4 inch may be treated with Gun-Grade FastFlash® and no backer rod. Treat joints ranging from 3/8 inch to 1 inch with backer rod and R-Guard Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with R-Guard SureSpan EX transition extrusion.
2. Apply Roller-Grade FastFlash® over the exterior inside framing of the rough opening and onto the exterior vertical wall surface 4-6 inches to

create a 12–15 mil thick monolithic, pinhole-free flashing surface. **NOTE:** When using with existing sheet weather resistive barriers, extend FastFlash® 8–10 inches over the face of the exterior wall to ensure positive drainage.

3. Allow treated surfaces to skin before installing windows, doors and other wall assembly components.
4. Proceed to application of primary air and water barrier coating.

NOTE: Gun-Grade FastFlash® may be used to detail joints, seams and cracks at 3/8 inch width or less; however, R-Guard Joint & Seam Filler is more commonly used for these applications.

PROTECT

Apply PROSOCO R-Guard® Spray Wrap MVP, Cat 5™, Cat 5™ Rain Screen, Spray Wrap Rain Screen, VB, or other waterproofing or air barrier component pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

1. Apply a minimum 3/8-inch bead of Gun-Grade FastFlash® to the top edge of R-Guard SS ThruWall or other flashing leg. Strike with a DRY joint knife or caulking tool.
2. Apply Roller-Grade FastFlash® to create a monolithic “cap flash” flashing membrane that extends 2 inches (51 mm) up the vertical face of the exterior wall and down over the fastener heads of the SS ThruWall Termination Bar. This “liquid termination bar” helps secure the flashing and ensures positive drainage from the wall surface to the flashing.

REPAIR

After applying R-Guard Spray Wrap MVP, Cat 5™, Cat 5™ Rain Screen, Spray Wrap Rain Screen, VB or other waterproofing or air barrier component, FastFlash® may be used to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

CURING & DRYING

At 70°F (21°C) and 50% relative humidity, product skins within 30–60 minutes and dries in 4–6 hours. Best practice is to use the entire pail of Roller-Grade FastFlash® once opened. Keep containers closed and out of direct sunlight when not in use. If product skins between applications, remove skin and re-mix product before applying as recommended.

FastFlash® is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerates dry time.

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R-Guard FastFlash®

Cleanup

Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured FastFlash® mechanically using a sharp-edged tool.

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation 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.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his 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, environment 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 website at www.prosoco.com, for the name of the PROSOCO representative in your area.

BEST PRACTICES

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

For best results, spread/tool Gun-Grade FastFlash® while still wet, within 2–3 minutes of gun application.

Hot Weather Conditions/Precautions: When air/surface temps exceed 95°F (35°C), apply product to the shady side of structure before daytime air and surface temps reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Do not apply when temp exceeds 110°F (43°C). **Cold Weather Conditions/Precautions:** May be applied to frost-free substrates at temps below 32°F (0°C). Product will not begin to cure until temps reach 32°F (0°C) and remain above freezing. **Low Humidity Conditions/Precautions:** Curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surface will accelerate curing, if necessary.

Gun-Grade FastFlash® may be used to adhere and gasket mechanically fastened building components.

For Cast-In-Place Concrete Applications, the concrete designated for application must be clean, smooth and free of curing compounds and form release agents. Repair bug holes, honey combing and other imperfections using a suitable cementitious mortar. Remove concrete splashes, over pours, grout or slurry rundown using appropriate mechanical means. Fill and prepare minor imperfections in the concrete surface with R-Guard Joint & Seam Filler. After product application, inspect the surface to ensure the coating is applied at the appropriate wet mil thickness, achieving a continuous film and free of pinholes. Treat visible pinholes or breaks in the film with additional primary air and water barrier coating or R-Guard FastFlash®.

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

Use Gun-Grade FastFlash® after the primary R-Guard air barrier has been applied to repair cracks or fill voids.

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

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.

PRODUCT TEST RESULTS

R-Guard FastFlash®



AAMA 714-19: VOLUNTARY SPECIFICATION FOR LIQUID-APPLIED FLASHING USED TO CREATE A WATER-RESISTIVE SEAL AROUND EXTERIOR WALL OPENINGS IN BUILDINGS

TEST	METHOD	CRITERIA	RESULTS
Adhesive Strength to Substrates	ASTM C 794	≥ 5 pli	Pass
Water Penetration Around Nails	Modified ASTM D 1970 AAMA 711 Section 5.3	Shall pass 31 mm (1.2 in) of water	Pass
Accelerated UV Aging Peel Adhesion Appearance	ASTM G 154, UVA cycle 1 ASTM C 794, Visual	≥ 5 pli	Pass
Elevated Temperature Exposure, Level 3=176° F for 7 days	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Thermal Cycling (10 cycles) Peel Adhesion	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Crack Bridging	ASTM C 1305	Water holdout of 550 millimeters for 24 hours with 1/8-inch or 1/16-inch crack after cycling per ASTM C 1305 for 10 cycles.	Pass
Water Immersion	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Water Vapor Permeability	ASTM E 96 Wet Cup	Minimum of 10 perms at manufacturer's recommended application thickness	Pass
Damp Surfaces	ASTM C 794	≥ 5 pli	Pass

ICC-ES AC212¹: ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR³ SHEATHING (*FASTFLASH® TESTED AS PART OF AN ASSEMBLY)

*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 Penetration	ASTM E 331	No visible water penetration at sheathing joints as viewed from back of the panel.	Pass
*Weathering	ICC-ES AC212 AATCC ² 127	No cracking of the coating; no water penetration.	Pass

ABAA: AIR BARRIER ASSOCIATION OF AMERICA ACCEPTANCE CRITERIA FOR LIQUID APPLIED MEMBRANES³ (*FASTFLASH® TESTED AS PART OF AN ASSEMBLY)

*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
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FIRE TESTING

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: 15 Smoke Developed: 5
Surface Burning Characteristics of Building Materials and Assemblies (Canada)	CAN/ULC S102-18	N/A	Flame Spread Rating: 0 Smoke Developed Classification: 5

All testing was completed by independent, accredited laboratories. Test results are applicable to both gun-grade and roller-grade versions of R-Guard FastFlash®.

NOTES:

1. International Code Council Evaluation Service Acceptance Criteria 212
2. American Association of Textile Chemists and Colorists
3. Full report pending



PROSOCO®

R-Guard®

AIR & WATER BARRIER



INDOOR ADVANTAGE GOLD
BUILDING MATERIALS

Joint & Seam Filler

PROSOCO R-Guard® Joint & Seam Filler is a gun-grade, crack and joint filler, adhesive and detailing compound that combines the best of silicone and polyurethane properties. This single-component, fiber-reinforced, Silyl-Terminated-Polymer (STP) is easy to gun, spread and tool.

Use Joint & Seam Filler to fill openings and create transitions where flexible reinforcement is required to bridge larger gaps and provide continuous support of fluid-applied flashing membranes, waterproofing or air barrier components.

Suitable for all climates, Joint & Seam Filler bonds directly to damp or dry surfaces and cures under a variety of weather conditions. It dramatically reduces surface preparation time by eliminating the need for reinforcing tapes at sheathing joints, inside and outside corners.

Use Joint & Seam Filler as part of a continuous, building-wide air barrier system, or to prepare surfaces for conventional waterproofing or air barrier components. Joint & Seam Filler may also be used to repair cracks or fill voids after the primary R-Guard air barrier has been applied.

ADVANTAGES

- Streamlines preparation by eliminating the need for joint reinforcing tapes.
- Silane functional polymer provides superior long term adhesion, crack filling and weathering characteristics.
- Bonds to most common building materials without priming.
- Single component saves time – no mixing.
- Bonds and cures in wet weather and on damp substrates. Tolerates rain immediately after application.
- May be fully exposed to UV and weather for up to 12 months. If longer, contact for inspection.
- Compatible with most sealants and waterproofing or air barrier components.
- Solvent free. Isocyanate free. Phthalate free.

- **No shrinkage. No staining. No yellowing.**
- **Breathable** – allows damp surfaces to dry.
- **Will not support mold growth.**
- **Passes ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.**
- **Illustration depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.**

Limitations

- Not for use as a liquid flashing membrane. Use R-Guard FastFlash®.
- Not for use in place of appropriate through-wall flashing. See R-Guard SS ThruWall product literature.
- Not for use below grade or in locations which are continuously immersed in water.
- May have slight incompatibility with some asphaltic materials or butyl adhesives. Always test first.

REGULATORY COMPLIANCE

VOC Compliance

R-Guard Joint & Seam Filler is compliant with the US Environmental Protection Agency's AIM VOC regulations. Visit www.prosoco.com/voccompliance to confirm compliance with individual district or state jurisdictions.

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

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

Product Data Sheet

R-Guard Joint & Seam Filler

TYPICAL TECHNICAL DATA

FORM	viscous paste, mild odor pale red color
SPECIFIC GRAVITY	1.40 – 1.50
pH	not applicable
WT/GAL	11.8 lbs
TOTAL SOLIDS	99%
VOC CONTENT	30 g/L maximum
FLASH POINT	no data
FREEZE POINT	no data
SHELF LIFE	1 year in tightly sealed, unopened container

Cured Properties

Hardness, Shore A	40–50
Tensile Strength	70 psi
Elongation at Break*	>180% (ASTM D 412)
Water Vapor Transmission	19 perms @ 20 mils ASTM E96
Corrosive Properties	Non-corrosive

*Elongation per ASTM D 412 is not a requirement of the Air Barrier Association of America's (ABAA) Acceptance Criteria for Liquid Applied Membranes nor is it a requirement of the International Code Council Evaluation Service's Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over exterior Sheathing (ICC-ES AC212). Elongation is not a requirement of the AAMA 714 Specification for Liquid Applied Flashing used to Create a Water-Resistive Seal Around Exterior Wall Openings. There is no data to support that certain levels of elongation must be achieved to perform as a fluid applied WRB or as a fluid applied flashing. Specifications should be based upon performance test results like those required from the referenced organizations. Refer to the R-Guard Joint & Seam Filler Product Test Results document for a complete list of performance test results.

PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface oxidation, surface coatings or films may adversely affect adhesion. Pressure-treated wood or fire-retardant wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of R-Guard products.

Concrete must be in place 3-7 days and free of any curing compounds or form release agents before permeable R-Guard products are applied. Mortar joints in CMU construction must have a minimum 3 day cure before being treated with R-Guard products.

If considering use on insulated concrete forms, the preferred method for cleaning oxidation is with water and low-pressure cleaning.

Protect people, vehicles, property, plants and all other surfaces not intended to receive Joint & Seam Filler.

Remove and replace damaged sheathing.

Any gaps or joints greater than 1 inch should be structurally repaired or readied for an appropriate transition membrane.

In rough openings, and where appropriate, prepare all raw gypsum board edges with R-Guard PorousPrep. Apply to raw gypsum board edges in a thin, uniform coat according to published application instructions. Do not over apply. Allow to dry tack-free before application of R-Guard Joint & Seam Filler or other products.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and /or detrimentally impact the performance of such materials.

Surface & Air Temperatures

Substrate and temperature conditions between 32°F (0°C) and 110°F (43°C) are required for proper curing and drying of material to take place.

Hot Weather Conditions/Precautions: When air or surface temperatures exceed 95°F (35°C), apply product to the shady side of structure before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Do not apply when substrate temperature exceeds 110°F (43°C)

Cold Weather Conditions/Precautions: Product may be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not begin to cure until temperatures reach 32°F (0°C) and remain above freezing. Keeping material stored in a heated environment prior to use and misting applied material with warm, fresh water will help in these conditions.

Low Humidity Conditions: The process of curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surface will accelerate curing if necessary.

Though Joint & Seam Filler may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing

Product Data Sheet

R-Guard Joint & Seam Filler

water or frost. *Contact PROSOCO if conditions are questionable.* As with any coating, application to substrates with high moisture content may lead to blistering of the material.

Equipment

Apply using a professional caulking gun. Use a DRY joint knife, trowel or spatula to tool and spread the product. Do not use soapy water when tooling or spreading.

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 Joint & Seam Filler 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

Read “Preparation” and the Safety Data Sheet before use.

Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. No mixing required.

Typical Coverage Rates

Coverage varies based on surface texture and irregularities. R-Guard Joint & Seam Filler is sold in 29-oz tubes and 20-oz sausages.

Estimated coverage includes overlapping 1-inch on each side of the sheathing joint. Joint width varies from 0 to 0.25 inches.

- 60.5–93.5 lineal feet per 29-oz tube
- 38.5–60.5 lineal feet per 20-oz sausage

Application Instructions

PREPARE

Prepare all surfaces as described above under “Preparation.” Once preparation is complete, cut open tip of threaded fitting, install nozzle and cut nozzle to desired opening.

Filling Joints, Seams and Cracks,

Detailing Fastener Heads and Around Penetrations

1. Apply a bead of Joint & Seam Filler to all sheathing joints, seams and cracks, then strike smooth with a DRY tool. Joint widths up to 3/8 inch may be treated without backer rod. Treat joints ranging from 3/8 inch to 1 inch with backer rod before applying Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with R-Guard SureSpan EX transition extrusion. Detail over wood knots,

deep cracks or surface irregularities to complete the surface preparation.

2. Use a DRY joint knife, trowel or spatula to spread the product 1 inch beyond the sheathing seams on each side to a thickness of 20–30 mils.
3. Spot fastener heads and strike with a DRY tool.
4. Allow to skin before installing other waterproofing or air barrier components.

Detailing & Waterproofing Fastener Penetrations (Window & Door Penetrations)

1. Apply a bead of Joint & Seam Filler in each corner of the rough opening and at the sheathing to stud transition, then strike smooth with a DRY tool. Joint widths up to 3/8 inch may be treated without backer rod. Treat joints ranging from 3/8 inch to 1 inch with backer rod before applying Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with R-Guard SureSpan EX transition extrusion.
2. Use a DRY joint knife, trowel or spatula to tool and spread product 1 inch beyond the seam on each side to a thickness of 20–30 mils.
3. Allow treated surfaces to skin over before installing R-Guard FastFlash®.

PROTECT

Apply R-Guard Spray Wrap MVP, Spray Wrap Rain Screen, Cat 5, Cat 5 Rain Screen, VB or other waterproofing or air barrier component pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

1. Fasten R-Guard SS ThruWall or other flashing leg to the vertical wall surface using a bead of Joint & Seam Filler or conventional methods. Fill any voids between the flashing leg and the vertical wall with Joint & Seam Filler.
2. Apply and tool Joint & Seam Filler as needed to direct water from the vertical wall to the face of SS ThruWall or other flashing.
3. Apply and tool Joint & Seam Filler at inside corners to ensure positive drainage.
4. Allow treated surfaces to skin before installing R-Guard FastFlash®.
5. Use Joint & Seam Filler to fill any remaining surface imperfections to provide positive drainage and continuous support of fluid-applied flashing membranes.

REPAIR

After applying R-Guard Spray Wrap MVP, Spray Wrap Rain Screen, Cat 5, Cat 5 Rain Screen, VB or other waterproofing or air barrier component, Joint & Seam Filler may be used to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

Product Data Sheet

R-Guard Joint & Seam Filler

Curing and Drying

At 70°F (21°C) and 50% relative humidity, product skins within 30 minutes and dries in 4 hours. Paintable with most paints after 2 hours.

Joint & Seam Filler is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerate dry time.

Cleanup

Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured Joint & Seam Filler mechanically using a sharp-edged tool.

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation 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.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his 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, environment 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 website at www.prosoco.com, for the name of the PROSOCO representative in your area.

BEST PRACTICES

For best results, spread and tool Joint & Seam Filler while still wet, within 2–3 minutes of gun application.

Hot Weather Conditions/Precautions: When air or surface temps exceed 95°F (35°C), apply product to shady side of structure before daytime air and surface temps 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. Do not apply when substrate temp exceeds 110°F (43°C). **Cold Weather Conditions/Precautions:** Product may be applied to frost-free substrates at temps below 32°F (0°C). Product will not begin to cure until temps reach and remain above 32°F (0°C). **Low Humidity Conditions/Precautions:** Curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surfaces will accelerate curing, if necessary.

For Cast-In-Place Concrete Applications, the concrete designated for application must be clean, smooth and free of curing compounds and form release agents. Repair bug holes, honey combing and other imperfections using a suitable cementitious mortar. Remove concrete splashes, over pours, grout or slurry rundown using appropriate mechanical means. Fill and prepare minor imperfections in the concrete surface with R-Guard Joint & Seam Filler. After application, inspect the surface to ensure the coating is applied at the appropriate wet mil thickness, achieving a continuous film and free of pinholes. Treat visible pinholes or breaks in the film with additional primary air and water barrier coating or R-Guard FastFlash®.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and /or detrimentally impact the performance of such materials.

PROSOCO R-Guard® Joint & Seam Filler, FastFlash® and AirDam® are recommended for improved performance of R-Guard Spray Wrap MVP, Spray Wrap Rain Screen, VB, Cat 5™ and Cat 5™ Rain Screen water-resistive barrier coatings.

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

To schedule field technical support, contact your PROSOCO Technical Customer Care 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.

PRODUCT TEST RESULTS

R-Guard Joint & Seam Filler



ICC-ES AC212¹: ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING (*JOINT & SEAM FILLER TESTED AS PART OF AN ASSEMBLY)

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 Penetration	ASTM E 331	No visible water penetration at sheathing joints as viewed from back of the panel	Pass
*Structural, Racking, Restrained Environmental Conditioning & Water Penetration	ASTM E 1233A 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

ABAA: AIR BARRIER ASSOCIATION OF AMERICAN ACCEPTANCE CRITERIA FOR LIQUID APPLIED MEMBRANES (*JOINT & SEAM FILLER TESTED AS PART OF AN ASSEMBLY)

*Air Leakage of Air Barrier Assemblies	ASTM E 2347	≤ 0.2 L / s·m ² at 75 Pa (≤ 0.04 cfm / ft ² at 1.57 psf)	Pass 0.0105 / s·m ² at 75 Pa (0.0021 cfm / ft ² at 1.57 psf)
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FIRE TESTING (*JOINT & SEAM FILLER TESTED AS PART OF AN ASSEMBLY)

*Fire Propagation Characteristics of Exterior Non-load-bearing Wall Assemblies	NFPA ³ 285	Must resist flame propagation and flame spread	Pass ⁴
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: 15 Smoke Developed: 5

All testing was completed by independent, accredited laboratories.

NOTES:

1. International Code Council Evaluation Service Acceptance Criteria 212
2. American Association of Textile Chemists and Colorists
3. National Fire Protection Association
4. Southwest Research Institute Report No. 01.17421.01.001



PROSOCO®

R-Guard®

AIR & WATER BARRIER

Spray Wrap MVP

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.

Easy-to-use Spray Wrap MVP provides superior protection against water intrusion, while minimizing potential for condensation within walls. 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.

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

- ICC Evaluation Service Report No. ESR-4191.
- 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 accumulated moisture 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 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 12 months without compromising performance.
- Single component. Easy to install. Long pot life. Water cleanup.
- Simplifies inspection, quality control.
- Low odor and non-toxic.
- Compatible with most paints, sealants and coatings.
- Air Barrier Association of America (ABAA) approved product.
- Illustrations depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.

Limitations

- Not for application at surface or air temperatures below 25°F (-3°C) or above 100°F (38°C). See Cold Weather Precautions and Hot Weather Precautions in “Surface and Air Temperatures” section.
- 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

R-Guard Spray Wrap MVP is compliant with the US Environmental Protection Agency's AIM VOC regulations. Visit www.prosoco.com/voc-compliance to confirm compliance with individual district or state regulations.

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

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

Product Data Sheet

R-Guard Spray Wrap MVP

TYPICAL TECHNICAL DATA

FORM	batter like, semi-gel liquid pink color
SPECIFIC GRAVITY	1.40
pH	8.5 – 9.5
WT/GAL	11.69 lbs
ACTIVE CONTENT	no data
TOTAL SOLIDS	63–68%
VOC CONTENT	<18 g/L
FLASH POINT	not applicable
FREEZE POINT	32° F (0° C)
SHELF LIFE	2 years in tightly sealed, unopened container

PREPARATION

Protect people, vehicles, property, plants and all other surfaces not intended for application. To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface oxidation, surface coatings or films may adversely affect adhesion. Pressure-treated wood or fire-retardant wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of R-Guard products. Painted surfaces are not acceptable for application.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

If considering use on insulated concrete forms, the preferred method for cleaning oxidation is with water and low-pressure cleaning.

Concrete Surfaces: Concrete must be in place 3–7 days and free of any curing compounds or form release agents before permeable R-Guard products are applied.

Brick/Masonry Surfaces: Mortar joints in CMU construction must have a minimum 3 day cure before being treated with R-Guard products. 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 ¼ inch. For gaps larger than ¼ inch, apply FastFlash[®] with backer rod, or 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 Joint & Seam Filler and/or FastFlash[®].
2. Seal cut edges of gypsum board sheathing in rough openings, and where appropriate, with fast-drying R-Guard PorousPrep. Gun and spread Joint & Seam Filler and/or FastFlash[®] into all inside corners, cracks, open joints and seams, as needed.
3. Seal masonry ties and properly prepare penetrations as work progresses.
4. Use 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.
5. Let all joint and seam fillers and rough opening treatments skin over before application.

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

Surface and Air Temperatures

Substrate and temperature conditions should be 25–100°F (–3°C to 38°C). Air and substrate temps must be at least 25°F (–3°C) and rising, and remain so for a minimum of 24 hours. Do not apply at temperatures below 25°F (–3°C). Wind and high temperatures will accelerate drying. As with any coating, application to substrates with high moisture content may lead to blistering of the material.

Hot Weather Conditions/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.

Cold Weather Conditions/Precautions: Product may be applied to frost-free substrates at surface and air temperatures of 25°F (–3°C). Keeping material stored in a heated environment prior to use will help in these conditions.

Equipment

Mix Spray Wrap MVP with a low-speed drill and clean mixing paddle. When roller applying, a maximum ¾ 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

Product Data Sheet

R-Guard Spray Wrap MVP

- *Minimum hose diameter of 3/8-inch. *NOTE:* A ¼-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 & gun before application.

*If hoses longer than 50 feet are required to a maximum hose length of 150 feet, use 75 feet of ½-inch hose and 75 feet of 3/8-inch hose with a 3 foot ¼-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 PROSOCO with questions.

Storage and Handling

Keep from freezing. 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 the Safety Data Sheet. ALWAYS TEST.

Dilution & Mixing

Apply as packaged. 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.

Typical 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. Some gypsum sheathing products, OSB and CMU may require additional material to achieve the desired mil thickness for a pinhole free coating. In those cases, more than 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/support/product-literature-library.

Spray Wrap MVP is packaged in 5-gallon containers.

- *Exterior Gypsum Board**, *OSB**, *Plywood*: 50–100 sq.ft. per gallon

- *CMU*: 30–60 sq.ft. per gallon per coat (2 coat minimum required to achieve a pinhole free surface)

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

Application Instructions

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 rolling is necessary to ensure there are no pinholes, voids or gaps in the membrane.
3. Inspect membrane before covering. Repair any deep gouges, punctures or damaged areas with FastFlash® or Joint & Seam Filler. 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 Spray Wrap MVP. Overlap repairs, penetration treatments, transitions, SS ThruWall, 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. The finished application must be continuous and free of voids and pinholes. Back rolling spray-applied material is necessary to maximize coverage for 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 deep gouges, punctures or damaged areas with FastFlash® or Joint & Seam Filler. 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 Spray Wrap MVP. Overlap repairs, penetration treatments, transitions, SS ThruWall rigid flashing and other air barrier components to ensure positive drainage and continuity of the air and water-resistive barrier.

Product Data Sheet

R-Guard Spray Wrap MVP

Curing and Drying

Curing and drying times vary with temperature, humidity and surface conditions. Protect from rain until completely cured. Surface temperatures should remain at least 25°F (-3°C) and rising after application and until curing is complete. 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 70°F (21°C) and 50% relative humidity.

Cleanup

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

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation 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. The purchaser shall be responsible to make his own tests to determine the suitability of this product for his 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

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Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our website at www.prosoco.com, for the name of the PROSOCO representative in your area.

BEST PRACTICES

When spray applying material, back rolling is necessary to maximize coverage for a void- and pinhole-free surface.

Always use a minimum of two coats of Spray Wrap MVP on CMU walls.

For Cast-in-Place Concrete Applications, the concrete designated for application must be clean, smooth and free of curing compounds and form release agents. Repair bug holes, honey combing and other imperfections using a suitable cementitious mortar. Remove concrete splashes, over pours, grout or slurry rundown using appropriate mechanical means. Fill and prepare minor imperfections in the concrete surface with R-Guard Joint & Seam Filler. After product application, inspect the surface to ensure the coating is applied at the appropriate wet mil thickness, achieving a continuous film and free of pinholes. Treat visible pinholes or breaks in the film with additional primary air and water barrier coating or R-Guard FastFlash®.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

If errant nails/fasteners that do not engage with studs are removed, fill the holes with additional Joint & Seam Filler to ensure the continuity of the air and water-resistive barrier.

Coverage rates will vary depending on surface porosity, moisture uptake, and other factors. Some gypsum sheathing products require additional material to achieve 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/support/product-literature-library.

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

To schedule field technical support, contact your PROSOCO Technical Customer Care 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.

PRODUCT TEST RESULTS

R-Guard Spray Wrap MVP



PROSOCO

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	25 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: 0.0024 L / s·m ² at 75 Pa (0.0005 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: 0.0024 L / s·m ² at 75 Pa (0.0005 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: 0.0028 L / s·m ² at 75 Pa (0.0005 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
Fastener Sealability	ASTM D 1970	No water infiltration	Pass
Pull Adhesion	ASTM D 4541	110 kPa (16 psi) or substrate failure	Pass
ICC-ES AC212	Entire Suite of Tests	Pass	Pass
Crack Bridging	ASTM C 1305	Pass	Pass
Water Vapor Transmission	ASTM E 96 Wet Cup Dry Cup	Measure	Wet Cup: 25 perms at 10 mils Dry Cup: 3 perms at 10 mils

FIRE TESTING

TEST	METHOD	CRITERIA	RESULTS
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
Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies	NFPA ³ 285	Must resist flame propagation and flame spread.	See Report No. 10261K from Priest & Associates Consulting, LLC

All testing conducted by independent, accredited laboratories.

NOTES:

- 1: International Code Council Evaluation Service Acceptance Criteria 212
- 2: American Association of Textile Chemists and Colorists
- 3: National Fire Protection Association





PROSOCO®

R-Guard®

AIR & WATER BARRIER

Cat 5™



INDOOR ADVANTAGE GOLD
BUILDING MATERIALS

PROSOCO R-Guard® Cat 5™ is a fluid applied, waterproofing, and air and water barrier membrane that combines the best of silicone and polyurethane properties. This single component, Silyl-Terminated-Polymer (STP) is roller applied to produce a highly durable, seamless, elastomeric weatherproofing membrane on exterior sheathing, CMU back-up walls, and precast concrete. 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 sealants and waterproofing or air barrier components.

ADVANTAGES

- 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, weatherproof membrane. Easy to repair if damaged.
- Will not tear or lose effectiveness when exposed to weather during construction.
- Bonds and cures in wet weather and on damp substrates.
- May be fully exposed to UV and weather for up to 12 months. If longer, contact for inspection.
- Single component – saves time.
- Easy roller application in all climates.
- Breathable. Allows damp surfaces to dry.
- Compatible with most sealants and waterproofing or air barrier components.
- Solvent free. Isocyanate free. Phthalate free.
- No shrinkage. No staining. No yellowing.

- Will not support mold growth.
- Stops penetration of air and water under normal and extreme weather conditions.
- Air Barrier Association of America (ABAA) approved product.
- Illustrations depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.

Limitations

- Not for use as a liquid flashing membrane. Use R-Guard FastFlash®.
- Not for use in place of appropriate through-wall flashing. See R-Guard SS ThruWall product literature.
- Not for use below grade or in locations designed to be continuously immersed in water.

REGULATORY COMPLIANCE

VOC Compliance

R-Guard Cat 5™ is compliant with the US Environmental Protection Agency’s AIM VOC regulations. Visit www.prosoco.com/voccompliance to confirm compliance with individual district or state jurisdictions.

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

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

Product Data Sheet

R-Guard Cat 5™

TYPICAL TECHNICAL DATA

FORM	viscous liquid, mild odor light brown color
SPECIFIC GRAVITY	1.35–1.50
pH	not applicable
WT/GAL	11.6 lbs
TOTAL SOLIDS	99%
VOC CONTENT	<30 g/L
FLASH POINT	>200° F (>93° C)
FREEZE POINT	not applicable
SHELF LIFE	1 year in tightly sealed, unopened container

Cured Properties

Hardness, Shore A	20–25
Tensile Strength	>100 psi
Elongation at Break*	>250% (ASTM D 412)
Water Vapor Transmission	18 perms (ASTM E 96)
Transfer Free Time	2–4 hours

*Elongation per ASTM D 412 is not a requirement of the Air Barrier Association of America's (ABAA) Acceptance Criteria for Liquid Applied Membranes nor is it a requirement of the International Code Council Evaluation Service's Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over exterior Sheathing (ICC-ES AC212). Elongation is not a requirement of the AAMA 714 Specification for Liquid Applied Flashing used to Create a Water-Resistive Seal Around Exterior Wall Openings. There is no data to support that certain levels of elongation must be achieved to perform as a fluid applied WRB or as a fluid applied flashing. Specifications should be based upon performance test results like those required from the referenced organizations.

Refer to the R-Guard Cat 5™ Product Test Results for a complete list of performance test results.

PREPARATION

Protect people, vehicles, property, plants and all other surfaces not intended for application. To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface oxidation, surface coatings or films may adversely affect adhesion. Pressure-treated wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of R-Guard products.

Concrete must be in place 3–7 days and free of any curing compounds or form release agents before permeable R-Guard products are applied. Mortar joints in CMU construction must have a minimum 3 day cure before treated with R-Guard products.

If considering use on insulated concrete forms, the preferred method for cleaning oxidation is with water and low-pressure cleaning.

Remove and replace damaged sheathing. On exterior sheathing, treat cracks with R-Guard Joint & Seam Filler and/or R-Guard FastFlash®, as needed.

In rough openings, and where appropriate, prepare all raw gypsum board edges with R-Guard PorousPrep. Apply to raw gypsum board edges in a thin, uniform coat according to published application instructions. Do not over apply. Allow to dry tack-free before application of R-Guard products.

Use R-Guard Joint & Seam Filler and/or R-Guard FastFlash® on joints, seams and all other interfaces, as needed. Let Joint & Seam Filler and/or FastFlash® skin over before applying Cat 5™.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

Surface & Air Temperatures

Substrate and temperature conditions between 32°F (0°C) and 110°F (43°C) are required for proper curing and drying of material to take place.

Hot Weather Conditions/Precautions: When air or surface temperatures exceed 95°F (35°C), apply product to the shady side of structure before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Do not apply when substrate temperature exceeds 110°F (43°C).

Cold Weather Conditions/Precautions: Product may be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not begin to cure until temperatures reach 32°F (0°C) and remain above freezing. Keeping material stored in a heated environment prior to use and misting applied material with warm, fresh water will help in these conditions.

Low Humidity Conditions/Precautions: The process of curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surface will accelerate curing if necessary.

Product Data Sheet

R-Guard Cat 5™

Though Cat 5™ may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost. *Contact PROSOCO if conditions are questionable.* As with any coating, application to substrates with high moisture content may lead to blistering of the material.

Equipment

Apply using standard ¼ inch to 3/8 inch nap rollers.

Storage & Handling

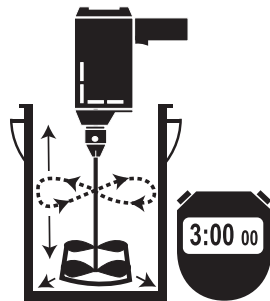
Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80°F (27°C) Cat 5™ has a shelf life of 12 months after the date of manufacture. This shelf 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

Read “Preparation” and the Safety Data Sheet before use.

Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. Using a low-speed drill and paddle, mix well from top to bottom and side-to-side for a minimum of 3 minutes before use. Avoid mixing air into the product.



Typical 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 were achieved when the product was applied at 12 wet mils to DensGlass® gold fiberglass mat gypsum sheathing. Some gypsum sheathing products, OSB and CMU may require additional material to achieve the desired mil thickness for a pinhole free coating. In those cases, more than two coats may be required to achieve a pinhole free coating. 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

BEST PRACTICES

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

Always use Joint & Seam Filler, FastFlash® and AirDam® where required. Do not substitute.

Prepare all rough openings with Joint & Seam Filler and/or FastFlash®. Allow to skin over. Overlap Cat 5™ onto FastFlash® by 2 inches or more. A slightly diagonal vertical application stroke provides best coverage.

If errant nails/fasteners that do not engage with studs are removed, fill the holes with additional Joint & Seam Filler to ensure the continuity of the air and water-resistive barrier.

For Cast-in-Place Concrete Applications, the concrete designated for application must be clean, smooth and free of curing compounds and form release agents. Repair bug holes, honey combing and other imperfections using a suitable cementitious mortar. Remove concrete splashes, over pours, grout or slurry rundown using appropriate mechanical means. Fill and prepare minor imperfections in the concrete surface with R-Guard Joint & Seam Filler. After product application, inspect the surface to ensure the coating is applied at the appropriate wet mil thickness, achieving a continuous film and free of pinholes. Treat visible pinholes or breaks in the film with additional primary air and water barrier coating or R-Guard FastFlash®.

Roofing systems must be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

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/support/product-literature-library/.

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

To schedule field technical support, contact your PROSOCO Technical Customer Care 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.

Product Data Sheet

R-Guard Cat 5™

at www.prosoco.com/support/product-literature-library/.

Cat 5™ is sold in 5 gallon containers.

- *Exterior Gypsum Board, OSB and Plywood:*
50–100 sq.ft. per gallon
- *CMU:* 50–80 sq.ft. per gallon

Application Instructions

1. Roller apply to exterior wall assembly using vertical strokes with a slight diagonal slant. Ensure there are no pinholes, voids or gaps in the membrane. **NOTE:** If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak.
2. Seal masonry ties and properly prepared penetrations as work progresses. Some substrates will require additional material to achieve a continuous coating. Inspect surface after initial application and touch-up as needed. CMU, OSB and exceptionally porous gypsum sheathing may require more than two coats.
3. 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. Lightly mist treated surfaces with fresh water to accelerate cure.
4. Inspect membrane before covering to ensure a void- and pinhole-free surface. Repair any deep gouges, punctures or damaged areas with FastFlash® or Joint & Seam Filler. 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™. Overlap repairs, penetration treatments, transitions, SS ThruWall, rigid flashing and other air barrier components to ensure positive drainage and continuity of the air and water 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.

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

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation 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.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his 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, environment 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 website at www.prosoco.com, for the name of the PROSOCO representative in your area.

PRODUCT TEST RESULTS

R-Guard Cat 5™



PROSOCO

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	18 perms at 12 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: 0.0009 L / s·m ² at 75 Pa (0.00018 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: 0.0009 L / s·m ² at 75 Pa (0.00018 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: 0.0105 L / s·m ² at 75 Pa (0.0021 cfm / ft ² at 1.57 psf)
Water Resistance	AATCC 127	No water infiltration after exposure to 55 cm head of water for 5 hours	Pass
Fastener Sealability	ASTM D 1970	No water infiltration	Pass
Pull Adhesion	ASTM D 4541	110 kPa (16 psi) or substrate failure	Pass
ICC-ES AC212	Entire Suite of Tests	Pass	Pass
Crack Bridging	ASTM C 1305	Pass	Pass
Water Vapor Transmission	ASTM E 96 Wet Cup Dry Cup	Measure	Wet Cup: 18 perms at 12 mils Dry Cup: 15 perms at 12 mils

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 ⁴
Determining Ignitability of Exterior Wall Assemblies	NFPA 268	Cannot exhibit sustained flaming when exposed to radiant heat flux of 12.5 kW/m ² ± 5% for 20 minutes	Pass ⁵
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: 10 Smoke Developed: 0

NOTES:

- 1: International Code Council Evaluation Service Acceptance Criteria 212
- 2: American Association of Textile Chemists and Colorists
- 3: National Fire Protection Association
- 4: Southwest Research Institute Report No. 01.17421.01.001
- 5: Southwest Research Institute Report No. 01.17421.01.002





PROSOCO®

R-Guard®

AIR & WATER BARRIER



INDOOR ADVANTAGE GOLD BUILDING MATERIALS

AirDam®

PROSOCO R-Guard® AirDam® is a gun-grade waterproofing sealant combining the best of silicone and polyurethane properties. Installed as the interior air sealant, AirDam® creates a long lasting, weather-tight seal that prevents moist outside air from entering, and conditioned indoor air from escaping around window and door assemblies. This ensures wind driven rain and condensed water are diverted to the flashing membrane and water resistive barrier before it can enter the living space.

This single component, Silyl-Terminated-Polymer (STP) is easy to gun and tool in all weather conditions. AirDam® is immediately waterproof and can be applied in unfavorable weather conditions to dry or damp substrates, eliminating many weather-related construction delays and accelerating the “drying in” of new buildings.

AirDam® cures quickly to produce a durable, high performance, high movement elastomeric sealant. Appropriate for exterior or interior use, AirDam® is easily applied with standard caulking tools. AirDam® bonds tenaciously and can be used with all types of window and door frame material – vinyl, wood or metal, including painted metal. As a properly applied interior window sealant, AirDam® can substantially reduce a building’s heating and cooling costs.



SEALANT · WATERPROOFING & RESTORATION INSTITUTE

Issued to: PROSOCO, Inc.
Product: PROSOCO R-GUARD® AirDam®

C719: Pass Ext:+25% Comp:-25%

Substrate: Vinyl, Anodized Aluminum, Wood
[all substrates were unprimed]

Validation Date: 8/06/18 – 8/05/23

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SEALANT VALIDATION
www.swronline.org

ADVANTAGES

- Solvent free. Isocyanate free. Complies with all AIM VOC regulations.
- Silane functional polymer provides superior long term adhesion, crack bridging and weathering characteristics.
- Bonds to most common building materials without priming.
- Produces a durable, weather-tight seal.
- Suitable for exterior or interior use.
- Stops penetration of air and water under normal and extreme weather conditions.
- Single component formulation saves time and requires no mixing.
- Easy to gun and tool in all climates.
- Bonds and cures in wet weather and on damp substrates.
- Compatible with most sealants and waterproofing or air barrier components.
- No shrinkage. No staining. Non-yellowing.
- Breathable – allows damp surfaces to dry.
- Will not support mold growth.
- Illustrations depicting the use of PROSOCO R-Guard® products are available at www.prosoco.com by downloading the R-Guard Installation Guidelines.

Limitations

- Not for use bridging gaps more than 2 inches wide.
- Not for underwater applications.
- Not for applications in direct contact with strong acids or solvents.
- May have slight incompatibility with some asphaltic materials or butyl adhesives. Always test first.

REGULATORY COMPLIANCE

VOC Compliance

R-Guard AirDam® is compliant with the US Environmental Protection Agency’s AIM VOC regulations. Visit www.prosoco.com/voccompliance to confirm compliance with individual district or state regulations.

Product Data Sheet

R-Guard AirDam®

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

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

TYPICAL TECHNICAL DATA

FORM	viscous white paste, mild odor
SPECIFIC GRAVITY	1.3–1.4
pH	not applicable
WT/GAL	11.24 lbs
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

Hardness, Shore A	15–25
Tensile Strength	85 psi
Elongation at Break*	>1000% (ASTM D 412)
Peel Strength	25 pli

*Elongation per ASTM D 412 is not a requirement of the Air Barrier Association of America's (ABAA) Acceptance Criteria for Liquid Applied Membranes nor is it a requirement of the International Code Council Evaluation Service's Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over exterior Sheathing (ICC-ES AC212). Elongation is not a requirement of the AAMA 714 Specification for Liquid Applied Flashing used to Create a Water-Resistive Seal Around Exterior Wall Openings. There is no data to support that certain levels of elongation must be achieved to perform as a fluid applied WRB or as a fluid applied flashing. Specifications should be based upon performance test results like those required from the referenced organizations.

PREPARATION

Protect people, vehicles, property, plants, and all other surfaces not intended to receive AirDam®. Surfaces must be structurally sound and free of any

surface contaminants, chemical residues, surface coatings or films that may adversely affect adhesion. Pressure-treated wood or fire-retardant wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of R-Guard products.

Joint Preparation

For joints less than one-half (1/2) inch wide, sealant depth should be equal to the width of the joint.

For joints ranging from one-half (1/2) to one (1) inch wide, sealant depth should be approximately one-half (1/2) the joint width.

In deep joints, control sealant depth by installing closed cell backer rod. The diameter of soft backer rod should be 25% greater than the joint width. Do not puncture backer rod.

Where joint depth does not permit use of a backer rod, install bond breaker tape to prevent three point bonding.

Surface and Air Temperatures

Substrate and temperature conditions should be 32°F (0°C) and rising and below 110°F (43°C) during application and drying. If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak. See Best Practices for hot weather installation instructions.

Though AirDam® may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost. *Contact PROSOCO if conditions are questionable.* As with any coating, application to substrates with high moisture content may lead to blistering of the material.

Equipment

Apply using standard caulking tools.

To tool the product, use a DRY joint knife slightly wider than the gap or joint opening. Do not use soapy water or solvent to help with the tooling process or to slick the surface profile.

Storage & Handling

Store in a cool, dry place. Keep container tightly closed when not in use. Do not open cartridges or sausages until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80°F (27°C), AirDam® 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-

Product Data Sheet

R-Guard AirDam®

stack pallets. Keep out of the reach of children. Dispose of in accordance with local, state and national regulations.

APPLICATION

Before use, read “Preparation” and the Safety Data Sheet. ALWAYS TEST each surface for suitability and desired results before overall application. Use the following application instructions. Let the surface dry thoroughly before inspection and approval.

Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for applications other than specified. AirDam® is ready to use. No mixing is required.

Coverage Rates

Coverage varies depending on the width and depth of joints. When overlapping onto adjacent surfaces, rough surface irregularities will reduce coverage. Use the table below as a guideline when estimating sealant requirements.

JOINT SIZE (D x W)	Linear Feet Sealed	
	20-oz Sausage	10.3-oz Cartridge
3/16 x 1/4 inches	64	33
3/16 x 1/2 inches	32	16
1/4 x 1/4 inches	48	25
1/4 x 1/2 inches	24	12
3/8 x 3/8 inches	21	11
3/8 x 5/8 inches	13	6.6
1/2 x 1/2 inches	12	6.2
1/2 x 3/4 inches	8	4.1

Application Instructions

1. Using a professional grade caulking gun, install sealant in a continuous bead without gaps or air pockets.
2. Tool sealant immediately to ensure complete wetting of joint bond surface and to produce a smooth, concave joint profile flush with the edges of adjacent surfaces. DO NOT use water, soapy water or solvent to tool. Avoid over tooling. Where horizontal and vertical surfaces meet, tool sealant to create a slight cove which will not trap moisture or debris.

Curing and Drying

AirDam® cures at the rate of 1/8 inch of depth per day. High humidity accelerates curing and drying time.

Cleanup

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

BEST PRACTICES

AirDam® bonds tenaciously. Carefully protect all nearby surfaces not intended to be treated. Immediately clean up incidental contact using mineral spirits or similar solvent.

Use as is. Do not thin or alter in any way.

Apply using a professional caulking gun. To tool the product, use a DRY joint knife slightly wider than the gap or joint opening. Do not use soapy water or solvent to help with the tooling process or to slick the surface profile. Avoid over tooling.

Allow for drying time based on temperature and humidity. AirDam® cures at the rate of 1/8 inch of depth per day. High humidity decreases dry-time. Low temperatures and low relative humidity will extend cure time.

Hot Weather Installations: when practical install AirDam® to shaded surfaces. When conditions are hot and dry, cool and dampen the surface with a fresh water mist. Allow standing water to dry before installation.

PROSOCO R-Guard® Joint & Seam Filler, FastFlash® and AirDam® are recommended for improved performance of R-Guard Cat 5™, Cat 5™ Rain Screen, Spray Wrap MVP, Spray Wrap Rain Screen and VB water-resistive barrier coatings.

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

To schedule field technical support, contact your PROSOCO Technical Customer Care 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.

Product Data Sheet

R-Guard AirDam®

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation 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.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his 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, environment 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 website at www.prosoco.com, for the name of the PROSOCO representative in your area.



PRODUCT TEST RESULTS

R-Guard AirDam



ASTM C 920: STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS			
TEST	METHOD	CRITERIA	RESULTS
Rheological Properties	ASTM C 639	Vertical Slump at 40± 3.6° F must be ≤ 3/16" Vertical Slump at 122± 3.6° F must be ≤ 3/16" Horizontal Slump at 40± 3.6° F, no deformation Horizontal Slump at 122± 3.6° F, no deformation	Pass: 0 Pass: 0 Pass: no deformation Pass: no deformation
Extrusion Rate	ASTM C 1183 Procedure A	Report Specific Gravity Extrusion Rate ≥ 10.0 mL/min	1.4 96.9 mL/min
Application Life: Type M, Grade P Only	ASTM C 1183 Procedure A	Not applicable for Type S, Grade NS	Not applicable
Hardness	ASTM C 661	Indentation Hardness <60	Pass: 18
Effects of Heat Aging	ASTM C 1246	Percent Weight Loss ≤7% Visual Examination for presence of cracks or chalking	Pass: 0.98% Pass: no cracking or chalking
Tack-Free Time	ASTM C 679	< 72 hours	Pass: 1.7 hours
Stain and Color Change	ASTM C 510	No visible stain or color change	Pass
Adhesion and Cohesion Under Cyclic Movement	ASTM C 719	Aggregate loss in bond and cohesion ≤1½ in ²	Pass 0 on vinyl 0 on aluminum 0 on wood
Adhesion-in-Peel	ASTM C 794	Aggregate loss in bond and cohesion ≥5 lbf	Pass 10.4 lbf on vinyl 13.7 on aluminum 10.5 on wood
Adhesion-in-Peel exposed to UV through glass	ASTM C 794 ASTM C 1442	Aggregate loss in bond and cohesion ≥5 lbf	≥5 lbf
Effects of Accelerated Weathering	ASTM C 793 ASTM C 1442	Visual inspection for cracking after accelerated weathering and after cold exposure and low temperature bend ≤ Example #2 in ASTM C 793	Pass: no cracking
SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S PRODUCT VALIDATION PROGRAM			
Adhesion and Cohesion Under Cyclic Movement (±25%)	ASTM C 719	Aggregate loss in bond and cohesion ≤1½ in ²	Pass 0 on vinyl 0 on aluminum 0 on wood
OTHER (R-GUARD AIRDAM®) TESTED AS PART OF AN ASSEMBLY			
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)

All testing was completed by independent, accredited laboratories.