PROSOCO®

R•Guard®

AIR & WATER BARRIER

FastFlash®

INDOOR ADVANTAGE GOLD
BUILDING MATERIALS

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

- **Available in Gun-Grade or Roller-Grade versions.**
- **Streamlines preparation by eliminating the need for joint reinforcing tapes.**
- **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.**
- **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 depending upon conditions. 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 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.

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

TYPICAL TECHNICAL DATA

FastFlash®

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 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

Surface and ambient temperatures 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 water or frost. *Contact PROSOCO if conditions are questionable.*

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, VB, Cat 5™, Cat 5™ Rain Screen 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.

REPAIR
After applying R-Guard Spray Wrap MVP, Cat 5™, Cat 5™ 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.

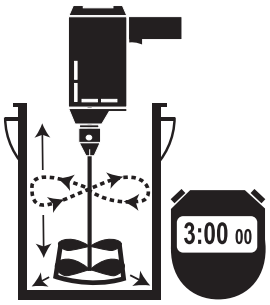
APPLICATION ROLLER-GRADE FASTFLASH®

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, VB, Cat 5™, Cat 5™ Rain Screen 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, 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.

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®

PROSOCO

TEST	METHOD	CRITERIA	RESULTS
AAMA 714-15: Voluntary Specification for Liquid-Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Wall Openings in Buildings			
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 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 – 21 perms
Damp Surfaces	ASTM C 794	≥ 5 pli	Pass
ICC-ES AC212[1]: Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior 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 Membranes (*FastFlash® Tested as part of an Assembly)			
***Air Leakage of Air Barrier Assemblies**	ASTM E 2357	≤ 0.2 L / s·m² at 75 Pa (≤ 0.04 cfm / ft² at 1.57 psf)	Pass: 0.0105 L / s·m2 at 75 Pa (0.0021 cfm / ft2 at 1.57 psf)
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: 10
Surface Burning Characteristics of Building Materials and Assemblies (Canada)	CAN/ULC S102-10	N/A	Flame Spread Rating: 5 Smoke Developed Classification: 25

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