

FastFlash®

Air & Water Barrier

PROSOCO R-Guard® FastFlash® is an air and water barrier, 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, 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 air barrier components. Use FastFlash® to adhere, transition and counter-flash 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.
- Produces an opaque membrane when installed at the recommended 12–15 wet mils to simplify inspection and quality control.
- 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.
- 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.
- Service temperatures: -75 to +300°F (-59 to +149°C).

Limitations

- Not for use as a structural sealant.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations designed to be continuously immersed in water.

REGULATORY COMPLIANCE

VOC Compliance

R-Guard® FastFlash® is compliant with the following national, state and district VOC regulations:

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

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 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
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
Water Vapor Transmission	21 perms ASTM E 96
Corrosive Properties	Non-corrosive

PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion. Pressure-treated wood and other contaminated surfaces should be cleaned with a solvent wipe before application.

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

Remove and replace damaged sheathing.

In rough openings, prime all raw gypsum board edges with R-Guard PorousPrep.

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

Ensure positive drainage at all rough openings.

Surface & Air Temperatures

Surface and ambient temperatures should be 40°F (4°C) and rising and below 110°F (43°C) during application and drying. Wind and high temperatures will accelerate drying.

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

Cold Weather Conditions: May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C).

Low Humidity Conditions: Curing may take longer than 12 hours. Lightly misting treated surfaces with fresh water will accelerate curing. Uncured material may delay construction.

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 version using a professional caulking gun and spread with a DRY joint knife, trowel, or spatula.

Do not use soapy water when tooling or spreading.

Dilution & Mixing

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

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

1. Apply a thick bead to all sheathing joints, seams and cracks. Treat joints ranging from ¼ to ½ inch with backer rod before application. Alternatively, R-Guard Joint & Seam Filler may be used in place of backer rod. Joints ranging from ½ to 1 inch require backer rod and R-Guard Joint & Seam Filler. Joints greater than 1 inch must be structurally improved or addressed with an appropriate transition membrane. On plywood, spot wood knots, deep cracks or surface irregularities.
2. Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread 1-inch beyond seam at each side to a thickness of 12–15 mils.
3. Allow to skin before installing other waterproofing or air barrier components.

Rough Openings

1. Apply a minimum ⅜-inch thick bead of FastFlash in each corner of the rough opening and at the sheathing to stud transition. Strike with a DRY joint knife or caulking tool.
2. Apply additional FastFlash over the exterior framing inside the rough opening. Spread the wet product to create an opaque, monolithic flashing membrane.
3. Apply additional product to the exterior wall surrounding the rough opening. Spread the product to create an opaque, monolithic flashing membrane at 12–15 mils thick. This application should surround the rough opening and extend 4–6 inches (100–152 mm) over the face of exterior wall.
4. Allow treated surfaces to skin before installing windows, doors and other wall assembly, or air barrier components.

PROTECT

Apply PROSOCO R-Guard[®] Cat 5[®], pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

1. Apply a minimum 3/8-inch bead to the top edge of the 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 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[®] Cat 5[®], FastFlash[®] may be used to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

APPLICATION ROLLER-GRADE FASTFLASH

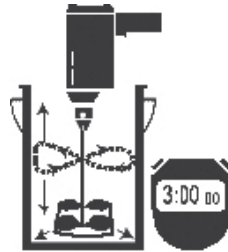
Read “Preparation” and the Safety Data Sheet before use.

Equipment

Apply roller-grade version with a professional paint roller with a 3/8-inch nap. Do not use soapy water when tooling or spreading.

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

BEST PRACTICES

Surfaces should be clean, free of standing water and in good repair before application. Product recommendations and information are available by calling Customer Care at 800-255-4255.

In rough openings, prime raw gypsum board edges with R-Guard PorousPrep.

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

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. **Cold Weather Conditions:** May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C). **Low Humidity Conditions:** Curing may take longer than 12 hours. Lightly misting treated surfaces with fresh water will accelerate curing. Uncured material may delay construction.

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

When using FastFlash[®] as a flashing membrane, apply 12–15 wet mils. FastFlash[®] produces an opaque flashing membrane when installed at the recommended 12–15 wet mils to simplify inspection and quality control.

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

Allow FastFlash[®] to skin over before installing the selected PROSOCO R-Guard[®] Cat 5[®].

Use gun-grade FastFlash[®] after R-Guard[®] Cat 5[®] has been applied to repair cracks or fill voids.

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.

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.

Rough Openings

1. Apply a minimum 3/8-inch thick bead of gun-grade FastFlash in each corner of the rough opening and at the sheathing to stud transition. Strike with a DRY joint knife or caulking tool.
2. Apply roller-grade FastFlash over the exterior framing inside the rough opening. Apply enough product to create an opaque, monolithic flashing membrane.
3. Apply roller-grade FastFlash to the exterior wall surrounding the rough opening using enough to create an opaque, monolithic flashing membrane at 12–15 mils thick. This application surrounds the rough opening and extends 4–6 inches (100–152 mm) over the face of exterior wall.
4. Allow treated surfaces to skin before installing windows, doors and other wall assembly, waterproofing or air barrier components.

PROTECT

Apply PROSOCO R-Guard® Cat 5®, pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

1. Apply a minimum 3/8-inch bead of gun-grade FastFlash® to the top edge of the 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 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, Cat 5®, FastFlash® may be used to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

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.

Curing and 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.

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 web site at www.prosoco.com, for the name of the PROSOCO representative in your area.

R-Guard® FastFlash® Product Test Results

AAMA 714-12: 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 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•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)
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