



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.

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.



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

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.