

## AIRLOK® STPE WRB DETAIL-N-JOINT

Fluid-Applied Air & Water Resistive Flashing/Detailing Sealant

## Product Data Sheet

*Per regulations of all states*

### PRODUCT NAME

Airlok® STPE WRB Detail-N-Joint

### MANUFACTURER

Polyguard Products, Inc.  
Ennis, TX 75119  
(214) 515-5000  
[www.polyguard.com](http://www.polyguard.com)

### PRODUCT DESCRIPTION

#### BASIC USES

Typical detailing applications include rough opening, penetrations, above-grade flashings and transition joints.

#### PRODUCT FEATURES

- Airlok® STPE WRB System is a Silyl Terminated Polyether (STPE), which is a high-performance coating providing extended service life in wall cavities.
- Compliant with NFPA 285 in most wall assemblies.
- Airlok® Detail-N-Joint is 100% solids and < 20 g/l VOC
- Detail-N-Joint may be left exposed to the sun's ultra violet (UV) rays for a period up to twelve (12) months.
- Single-component; ease of application with no need for mixing.
- Does not provide a food source for biological growth, such as mold.
- Existing cured membranes readily receive additional application creating a monolithic transition.
- Detail-N-Joint may be applied in ambient temperatures from 25°F (-3°C) up to 110°F (44°C). (Cure times may vary relative to temperature).
- Being 100% solids and moisture reactive, Detail-N-Joint is resistant to wash-off during rain events extending the application time relative to inclement weather.

#### COMPOSITION & MATERIALS

Airlok® Detail-N-Joint is a single-component, cold-applied, Silyl Terminated Polyether (STPE), fiber-filled, fluid joint filler and transition flashing material; that combines the best of silicone and polyurethane properties.

#### TECHNICAL DATA

See physical properties table.

#### INSTALLATION

##### SURFACE PREPARATION

Apply to clean, structurally sound and dust free substrates. Airlok® Detail-N-Joint can be applied to damp substrates which are clear of detectable surface water, frost, ice or snow. Refer to the Airlok® STPE WRB Installation Guide and the standard details for additional instructions.

#### PRIMING

No primer is needed, except for cut edges of gypsum sheathing; refer to the Airlok® STPE WRB Installation Guide. For best results, apply Airlok® Detail-N-Joint directly to clean, structurally sound, and dust free substrate joints and surfaces. Refer to the Airlok® STPE WRB Installation Guide and the standard details for additional instructions.

#### NON-EXPANSION JOINT DETAILING

Generally, apply Airlok® Detail-N-Joint to board joints, butt joints or transition joints up to a 1/4-inch as a detail stripe of 2-inches wide centered over joint by a nominal tooled surface thickness of a 25-mils. Apply a cove bead and tool to a radius in corner joints at a minimum of 1/2-inch. Detailing can be performed before or after application of other system components. If detailing is performed before the field or flashing application, then allow the Detail-N-Joint to skin over before applying other system components. Refer to the Airlok® STPE WRB Installation Guide and the standard details for additional instructions.

#### FLASHING APPLICATION

The Airlok® Detail-N-Joint can be applied before or after application of other system components. If detailing is performed after other system components, ensure that they are fully cured before detailing.

Generally, apply Detail-N-Joint in one coat; by means of a gun and trowel or putty knife; to achieve a continuous film at the desired 25 mils dry, apply at a theoretical coverage rate of 64 square feet per gallon (25mils wet). Apply Detail-N-Joint a minimum of 3-inches onto each surface at a change in plane. Ensure that a minimum of a 2-inch wide detail stripe is centered over board joints being addressed. Additional material may be necessary on rougher or more porous substrates.

Allow approximately 1 hour for the Detail-N-Joint to skin over before continuing work on the surface. Allow additional time for low humidity climates. For arid climates, curing process can be accelerated with the application of a fine mist of fresh water.

Detail-N-Joint can be utilized in combination with Polyguard sheet membranes and flashings before or after installation. Refer to the Airlok® STPE WRB Installation Guide and the standard details for additional instructions.

#### FLASHING REPAIRS

In the case of damaged Airlok® Detail-N-Joint, the area can be repaired by cleaning the surface with denatured alcohol and applying new material. No primer or bonding agent required.

## LIMITATIONS, PROTECTION & CLEAN UP

- 1) For periods of ultra violet (UV) exposure greater than 12 months, contact Polyguard to inspect the Airlok® Detail-N-Joint condition.
- 2) Protect all surfaces from spilling or dripping that are not intended for coverage. If this occurs, immediately clean up with mineral spirits or similar solvent.
- 3) Clean all tools and equipment immediately after use with mineral spirits or similar solvent.

## STORAGE

Store Airlok® STPE WRB system components as follows;

- 1) Protect from water, sparks, flames, excessive heat, and poor ventilation.
- 2) Keep out of direct sunlight.
- 3) Store in ambient temperature range between -10°F (23°C) and 100°F (38°C).
- 4) For best application results, store in ambient temperatures above 50°F (11°C).
- 5) Store in compliance with local governing regulations.

## SAFETY

SDS documents for all Polyguard products can be obtained at our website [www.polyguard.com](http://www.polyguard.com). Call Polyguard Products, Inc. at (214) 515-5000 with questions.

## WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

## TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

P.O. Box 755, Ennis, TX 75120-0755

Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500

Email: [archtech@polyguard.com](mailto:archtech@polyguard.com)

Website: [www.polyguard.com](http://www.polyguard.com)

| PROPERTY  | TEST METHOD  | TYPICAL VALUE                                    |
|---|--|--|
| COLOR   |  | Gray   |
| AIR LEAKAGE & DURABILITY                              | ASTM E 2357  | 0.0016 cfm/ft <sup>2</sup>                       |
| AIR LEAKAGE   | ASTM E 283   | 0.0011 cfm/ft <sup>2</sup>                       |
| STRUCTURAL PERFORMANCE                                | ASTM E 330   | Pass   |
| WATER INFILTRATION                                    | AAMA 501.2   | Pass   |
| WATER PENETRATION                                     | ASTM E 331   | Pass   |
| ADHESION TO DENSGLASS                                 | ASTM D 4541  | 136+ PSI   |
| ADHESION TO CONCRETE                                  | ASTM D 4541  | 210+ PSI   |
| TENSILE STRENGTH                                      | ASTM D 412   | 350 PSI  |
| HARDNESS, SHORE A                                     | ASTM D 2240  | 70   |
| ELONGATION  | ASTM D 412   | 250%   |
| TEAR STRENGTH   | ASTM D 1004  | 50 PSI   |
| SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS | ASTM E 84-94; NFPA 255;<br>ANSI 2.5; UL 723 Omega 1995 | 20 -Flame Spread Index<br>10 - Smoke Development |
| VOC   |  | < 20 g/l   |

| PACKAGING                       | PART NUMBER                | UNIT SIZE       |
|---------------------------------|----------------------------|-----------------|
| AIRLOK® STPE WRB DETAIL-N-JOINT | AIRLOK STPE 2200-SAU 20 OZ | 20 sausages/ctn |

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