

## Simply Sealant E-101

A Single Component, Water Curable, High Performance, 100% Solids, Joint Sealant for Horizontal and Vertical Applications

### Description

Simply Sealant E-101 is a high performance, interior or exterior joint sealant for use in both moving and non-moving joint applications. Simply Sealant E-101 provides a long lasting weather tight seal to a variety of building substrates. Please use the correct product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

### Features

- 100% Solids no Shrinkage
- Applies Vertically as Well as Overhead
- Bonds to Damp Masonry
- Durable Long Lasting Seal
- Easy to Trowel & Gun
- Excellent Weathering Properties
- Fast Skinning – Resists Dirt Pickup on Construction Sites
- Gun Grade
- Hybrid – Bonds to a Variety of Substrates without Priming
- No Mixing
- No Solvents or Odor
- Non-Slump
- Safe to Use Indoors and in Confined Spaces
- Single Component
- Unique Polymer
- Water Curable

### Typical Uses

- Block and Masonry
- Curtain Walls
- Parapets
- Roofing Details
- Weather Sealing
- Cove Joints
- Expansion Joints
- Pre-Cast Concrete
- Siding
- Window & Door Frames

### Substrates

- Aluminum
- Brick
- EPDM
- Galvanized Metal
- Metal
- SBS Mod Bit
- Vinyl
- Block
- Concrete
- Foam
- Masonry
- PVC
- Stone
- Wood

### Color

Black, dark bronze, bronze, limestone, stone, tan, grey and white Custom colors are available upon request. Minimum quantity required and additional costs may apply.

### Packaging

10.1 oz (299 ml) Cartridge: 24 per case, 60 cases per pallet.

20 oz (591 ml) Sausage: 12 per case, 45 cases per pallet.

2 gallon (7.56 liters) pails.

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### Application

Simply Sealant E-101 ® is a one component, ready-to-use material that requires no mixing. Simply Sealant E101 may be water cured by hand or drill mixing 4 ounces (118 ml) of water p/gallon for faster curing (approximately 2 hours). It is recommended that a quality caulking gun be used to ensure ease of application. Apply when temperatures are above 40° F (4.4°C). When all the joint preparation is complete, cut the plastic nozzle at a 45-degree angle to approximately the size of the joint opening. Begin gunning to fill the joint from the bottom to the surface, ensuring there are no voids or air pockets. Dry tooling is recommended to create a strong mechanical bond against the joint faces.

Do not use Simply Sealant E-101 ® in temperatures below 40°F (4.4°C). PTS E-101 can be painted after 24 hours. Simply Sealant E101 can be used in vertical or overhead working conditions.

### Finishing & Cleanup

Wet sealant can be removed using a solvent such as alcohol, or soap and water. Cured Simply Sealant E101 can be removed by abrading or scraping the substrate. Equipment should be cleaned with an environmentally-safe solvent, as permitted under local regulations, immediately after use.

### Curing

Simply Sealant E-101 ® typically skins over within 15-45 minutes and cures through in 3 to 7 days depending upon temperature, humidity and thickness. Water curing is the preferred method when caulking in low temperatures. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time.

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### Shelf life & Storage

Simply Sealant E-101 ® has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

### Limitations

- Simply Sealant E-101 ® should not be used in direct contact with single component, moisture-cured-urethane coatings without use of an epoxy primer. Sealant shall be cured for 3-5 days prior to any direct coating with water-cured E-Tuff® 100 or P-Tuff® Classic.
- Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician.
- In areas of prolonged chemical exposure contact Technical Services for recommendations. Do not allow uncured Simply Sealant E-101 to come into contact with uncured silicone sealants.
- Allow treated wood to "cure" for six months prior to application per APA guidelines. Do not use in areas subject to continuous immersion without a primer.
- Horizontal applications will require tooling. Do not store in elevated temperatures. Simply Sealant E-101 ® will not freeze during storage.
- To ensure easy gunning, bring to room temperature before application.
- Read and ensure that the most up-to-date SDS and technical guidelines are being followed. Proper use and application are the responsibility of the applicator.

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### Preparation

#### **Joint Preparation:**

Joints should be cleaned, dry, and free from all contamination including dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.

Joint Width inches (mm) 1/4 - 1/2 (6-13)  
1/2 - 3/4 (13-19)  
3/4 - 1 (19-25)  
1 - 2 (25-50)

Joint Depth inches (mm) 1/4 (6)  
1/4 - 3/8 (6-10)  
3/8 - 1/2 (10-13)  
1/2 (13)

#### **Joint Design**

Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). Refer to ASTM and SWRI for Joint Prep guidelines. It is recommended that the joint shall be no less than 1/4" wide by 1/4" deep (6 mm x 6 mm). The maximum depth of sealant shall be 1/2" (13 mm). Control the depth of the sealant by using a backer rod that is 25% larger than the joint opening at standard temperature.

Where the joint configuration will not permit a backer rod, it is recommended that an alternative bond breaker be used.

Prevention of three-point adhesion is necessary through the use of a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weather-proof seal..

#### **Metal**

Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue. Remove films, coatings and oils with an appropriate solvent such as alcohol.

It is recommended that Kynar-coated substrates be tested for adhesion prior to starting the project. Please contact Poly-Tuff Systems International (PSI) for specific application guidelines and recommendations.

#### **Concrete**

Concrete and masonry substrates shall be fully cured and dry prior to the application of the sealant. Remove any contamination by mechanical abrasion, sand blasting or power washing.

#### **Wood**

Wood shall be clean, sound and dry prior to sealant application. Treated wood shall be allowed to weather for six (6) months. Coatings and paint shall be removed (or tested for compatibility) to ensure a proper bond.

#### **Priming**

In most instances Simply Sealant E-101 will not require a prime. However, certain applications or substrates, such as Kynar-coated metal, may require a primer to ensure a long lasting bond and weatherproof seal. It is the user's responsibility to determine the need for a primer. It is recommended that, where-ever pro-longed immersion is anticipated, a primer be used for best performance.

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## Technical Data (Based on draw down films.)

Specific Gravity (Depending on color)	1.05 – 1.07
Viscosity (Brookfield RVT, TF Spindle, 4RPM, 73°F [23°F])	200,000 – 300,000 cP
Odor	Ammoniacal
Service Temperature, Continuous Service	-70°F (-50°C)
Low Temperature Flex	-70°F (-50°C)
Slump (Sag), ASTM C-697	None
Hardness, ASTM D-2240 Shore A	60 – 70
Compressive Strength (psi)	150 – 1500 psi (1.03 ± 0.1 MPa)
Cure Time (hours)	40 – 50 minutes
Expansion (in/in)	300% – 400%
Shrinkage	No Measurable Shrinkage
Adhesion (in/in)	Good

Compressive strength was checked on composite of silica sand (12 mesh, 6.5 Moh's minimum hardness) and 18 to 20% of P-Tuff® CR in a 4" x 8" cylinder.

## Compliances

- ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A, and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19, 13-M82

**HEALTH AND SAFETY INFORMATION IS GIVEN IN THE SAFETY DATA SHEET (SDS) AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.**

Simply Waterproofing products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For Technical Support contact Simply Waterproofing via email at: [info@simplywaterproofing.com](mailto:info@simplywaterproofing.com) or visit [www.simplywaterproofing.com](http://www.simplywaterproofing.com).

**WARNING: Keep out of Reach of Children**