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# PTS E-101 Single Component Fast Curing Joint Sealant

*Single Component, Metal, Wood and Concrete Surfaces*

## DESCRIPTION

E-101 is a high performance interior or exterior joint sealant for use in both moving and nonmoving joint applications.

E-101 provides a long lasting weather tight seal to a variety of building substrates.

## FEATURES

- ❖ Economical
- ❖ Bonds to damp masonry
- ❖ Primerless on most substrates
- ❖ Meets the Criteria of ASTM C-836 & E-96
- ❖ Non-Gassing
- ❖ Fast Curing
- ❖ Applied at any required thickness
- ❖ Highly Flexible over extreme temperatures
- ❖ No Odor –
- ❖ Meets SCAQMD VOC Requirements
- ❖ Excellent Weathering
- ❖ Labor Saving
- ❖ User Friendly
- ❖ Resists Dirt Attraction
- ❖ No Mixing

## TYPICAL USES

- ❖ EDPM
- ❖ Expansion Joints
- ❖ Pre-cast Joints
- ❖ Block and Masonry
- ❖ Curtain Walls
- ❖ Galvanized Metal
- ❖ Green Roof Waterproofing
- ❖ Siding
- ❖ Expansion Joints
- ❖ Pre-cast Joints
- ❖ Block and Masonry
- ❖ Curtain Walls
- ❖ Vinyl
- ❖ Siding
- ❖ Window and Doors
- ❖ Parapet Walls
- ❖ Cove Joints
- ❖ Metal
- ❖ Wood
- ❖ SBS Modified Roofing
- ❖ PVC
- ❖ Window and Doors
- ❖ Parapet Walls
- ❖ Cove Joints
- ❖ Foam

## COLOR

Black, Dark Bronze, Bronze, Limestone, Stone, Tan, Gray, White (Color Matching Available)

## PACKAGING

**10.1 oz** (300 ml)  
16/Field Pack, 48/pallet  
24/carton, 60/pallet  
2 gallon and 5 gallon  
(special order)

## 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 the Joint Prep Table (p.2) for guidelines. It is recommended that the joint shall be no less than ¼" wide by ¼" deep (6 mm x 6 mm). The maximum depth of sealant shall be ½" (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-sided adhesion is necessary through

## TECHNICAL DATA, Terra-Shield™ WC Horizontal

Hardness Shore A, ASTM C-661	45 ± 5 Shore A
Tear Resistance, Die C, ASTM D-1002	150 ± 10 psi 21 ± 3.5 kNm
Elongation at Break, ASTM D-412	300-400% ± 50 psi
Ultimate Elongation, ASTM D-412	400 ± 50%
Specific Gravity	1.60 (13.113.5 lbs /gal.) depending on color
Total Solids by Weight, ASTM D-236	100%
Total Solids by Volume, ASTM D-2697	100%
Viscosity, at 80°F (27°C)	1,000,00cps Brookfield RVFTF
Service Temperature	spindle 4 RPM, 73°F -25°F to 200°F -31.7°C to 93.3°C

Meets the Criteria of ASTM C-836

## 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

the use of a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal.

#### **APPLICATION**

E-101 is a one-component, ready-to-use material that requires no mixing or preparation. It is recommended that a quality caulking gun be used to ensure ease of application. Apply when temperatures are above 40 degrees F. 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 E-101 in temperatures below 30 degrees F.

\*E-101 can be painted after 24 hours. \*E-101 can be used in vertical or overhead working conditions.

#### **Metal:**

Prepare all metal in a manner to ensure maximum adhesion.\* Remove all rust, scale and residue by wire brushing to a bright metal sheen. 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 Technical Services for specific application guidelines and recommendations.*

#### **Concrete:**

Concrete and masonry substrates shall be cured 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 6 months. Coatings and paint shall be removed (or tested for compatibility) to ensure a proper bond.

#### **CURING**

Wet sealant can be removed using a solvent such as alcohol, or soap and water. Cured E-101 can be removed by abrading or scraping the substrate.

#### **EQUIPMENT CLEANUP**

E-101 typically skins over within 15-45 minutes and cures through in 3 to 7 days depending upon temperature, humidity and thickness. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time. Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

#### **STORAGE**

Store in original unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunlight. Elevated temperatures will reduce shelf life.

#### **SHELF LIFE**

1 Year of Date of Manufacture when stored in normal environments.

#### **LIMITATIONS**

PTS E-101 should not be used in direct contact with single component moisture cure urethane coatings without use of an epoxy primer, while the sealant has not formed a skin. Direct contact with water catalyzed E-Tuff 100 and P-Tuff Classic while the sealant is wet is permissible. Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician.

**KEEP OUT OF REACH OF CHILDREN.**