



# GreatSeal PE-150 Multipurpose Joint Sealant

## Product Description:

GreatSeal PE-150 is a high performance interior or exterior joint sealant for use in both moving and non-moving joint applications. PE-150 provides a long lasting weather tight seal to a variety of building substrates. PE-150 is a single component unique polymer that will bond to damp surfaces and has excellent weathering properties for a long lasting seal. PE-150 adheres to Kynar® without a primer.

## Basic Use:

GreatSeal PE-150 is a polyether, multi-purpose sealant for use on roofing, doors & windows, masonry, siding, concrete, and more. It can be applied on a damp surface and in cold weather. It bonds aggressively to wood, Modified Bitumen, asphalt, EPDM, PVC & PIB, foam insulation, vinyl, fiberglass, glass, painted, galvanized and anodized metals and Kynar®.

## Limitations:

Surface may be damp but no frost or debris that would prevent adhesion. Some surfaces may require a primer.

## Compliances:

GreatSeal PE-150 complies to the following standards:

- ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A, and O
- Fed Specification TT-S- 230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II Class A
- Canadian Standards Board CAN 19, 13-M82

## Colors:

White, Off white, Stone, Gray, Tan, Bronze, Black, Redwood

## Packaging:

10.1 oz (300ml)  
24 pack case/ 60 case pallet

## Storage:

Store in original, unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunshine. Storing at elevated temperatures will reduce shelf life.

## Priming

In most instances GreatSeal PE-150 will not require a primer. However, certain applications or substrates may dictate that a primer is used to ensure a long lasting bond and weatherproof seal. It is the responsibility of the users to determine the necessity of a primer. GreatSeal PE-150 recommends that in any instance where pro-longed immersion is anticipated that a primer be utilized for best performance.

Apply a primer at full strength and allow to dry for approximately 15 minutes (based on 70 degrees F and 50% relative humidity). Apply in such a manner that the primer covers the entire joint face but does not run or puddle onto the backer rod or bond breaker tape.

## Technical Data:

Property	Results
Specific Gravity	1.62 (12.8-13.2LBS/ Gal) depending on color
Viscosity	1,225,000+ CPS Brookfield RVF, TF spindle, 4 RPM
Odor	Mild Ester smell
Elongation	344% ASTM D-0412
Hardness	30 – 35 ASTM C-0661
Movement capability	+/- 25%
Service Temp	Minus 40°F to 200°F
Shear Strength	150 psi ASTM D-1002
Shrinkage	none
Slump (sag)	0 slump ASTM C0697
Shelf Life	One Year
Tack Free Time	Approx 30 minutes ASTM C-0679
Tensile Strength	149 psi
Solvents	None
VOC	18.26 gr/liter
Prop 65 content	none

## Joint Preparation:

All Joints shall be dry or slightly damp and free from all contamination including dirt, oils grease, tar, wax, rust, bond breakers, membranes and any other substance that may inhibit the sealants performance.

Joint Width (in)	Joint Width (mm)	Joint Depth (in) at median temperature	Joint Depth (mm) at median temperature
1/4 - 1/2	6 – 13	1/4	6
1/2 - 3/4	12 – 19	1/4 - 3/8	6 – 10
3/4 – 1	19 - 25	3/8 – 1/2	10 - 13
1 – 2	25 – 50	1/2	13

## YIELD

### LINEAR FEET PER GAL – APPROX. 12 CARTRIDGES

inches	1/4	3/8	1/2	5/8	3/4	7/8	1
1/4	308	205	154	122	-	-	-
3/8	-	-	-	82	68	58	51
1/2	-	-	-	-	51	44	38

## **Joint Design:**

All joint installations shall be installed per ASTM and SWI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). It is recommended that the joint shall be no less than 1/4" wide by 1/4" deep (6mm X 6mm). The maximum depth of any sealant shall be 1/2" (13mm). Control the depth of the sealant by using a Backer Rod that is 25% larger than the joint opening at its median temperature. In instances where the joint configuration will not permit a backer rod it is recommended that the use of 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 weatherproof seal.

## **Metal:**

All Metal shall be prepared in a manner to ensure maximum adhesion\*. Remove all rust, scale and residue by wire brushing to a bright metal. Protective films, coatings and oils shall be removed with an appropriate solvent such as MEK (methyl-ethyl ketone). Certain protective coatings that can not be removed may require the use of a primer prior to application of the sealant.

*\*It is recommended that coated substrates be tested for adhesion prior to commencing the project. Please contact Technical Services for recommendations and specific application guidelines.*

## **Concrete:**

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

## **Wood:**

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

## **Application:**

GreatSeal PE-150 is a one component ready to use material that requires no mixing or preparation. A quality caulking gun should be used to ensure ease of application. Apply when temperatures are above 40 degrees F and inclement weather is not predicted. Once all the joint preparation is complete cut the plastic nozzle at a 45 degree angle in approximately the size of the joint opening. Gun the material filling the joint from the

bottom to the surface ensuring there are no voids or air pockets in the joint. Dry tooling of the sealant is recommended using a tool to create a strong mechanical bond against the joint faces. For smoothing joints, use ammonia applied to a cloth.

## **Clean-Up:**

Wet sealant may be cleaned up or removed using a solvent such as xylene. Ensure to wear the proper protective clothing and eye protection when working with solvents. Cured GreatSeal PE-150 may be removed by abrading or scraping the material from the substrate.

## **Curing**

GreatSeal PE-150 typically skins within 45 minutes and cures through in 3 to 7 days depending upon the temperature and humidity. Lower temperatures and lower humidity prolong the cure times of the GreatSeal PE-150 material.

## **Health and Safety Caution:**

Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician. Avoid prolonged contact with skin.

## **Warranty**

This product is manufactured of good materials and by competent workmen. Seller's and manufacturer's only obligations shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product. Before using, user shall determine the suitability of the product for his/her intended use; and user assumes all risk and liability.

STS COATINGS, INC.  
347 Hwy 289, Comfort, TX 78013  
(830)995-5177 Phone (830)995-5705 fax

[www.stscoatings.com](http://www.stscoatings.com)

A certified Texas HUB Manufacturer