



ONESTEP ADHESIVE SEALANT

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

ERSystems® OneStep Adhesive Sealant is a UV stable high performance reactive silyl-modified adhesive sealant. It is a one-component moisture-cure sealant that exhibits excellent bond strength after cure. It imparts integral flexibility, superior adhesion and resistance to ultraviolet and infrared radiation. Ease of application, minimum shrinkage, fast skin formation, and primerless adhesion to most building materials and substrates make this an excellent choice for an all-purpose sealant.

ADVANTAGE:

- Permanently flexible
- Easy to gun – Easy to tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Paintable and stainable
- Primerless adhesion to substrates including galvanized steel, aluminum, concrete, glass, Galvalume®, Galvalume-PLUS®, Acrylume®, Zinalume®, Kynar 500®, vinyl, fiberglass and ABS.

TYPICAL PROPERTIES:

Characteristic	Result	Test Method
Composition:	Reactive Polymer	
Density, lb/ gal	12.88 lb/ gal	
Flash point	115°F (68.33°C)	
VOC	39.5 g/L	EPA Method 24
Percent Solids:	97% minimum	By weight
Extrusion Rate:	5-20 seconds Readings are the range of time required to deliver 20 grams of materials through a 0.104" orifice with 40 psi air pressure @ 77 °F ASTM D 2452	
Slump:	0.1" Maximum	AAMA 800
Hardness (Shore A):	25 - 35	AAMA 800 ASTM C661
Paintability:	Compatible with most alkyds, enamels and lacquers	
Odor:	Mild before cure; none after cure.	
Vehicle Migration:	Pass	AAMA 800
Tensile Strength:	200 psi	ASTM D412
Peel Strength: (glass/aluminum)	20 p.i.w. Minimum	AAMA 800 ASTM C794
Skin Time:	30 Minutes	1/4" dia. Bead @ 77°F ± 5°F, 50% RH
Cure Time:	24 Hours	
Elongation:	300% Minimum	ASTM D 412
Total joint movement	50%	ATM C 719

Service Temperature Range:	-40°F to 200°F (-40°C to 93.3°C)
----------------------------	----------------------------------

COVERAGE:

1/16" (1.58MM) Diam. Bead6260 Ft. Gal.
1/8" (3.17mm) Diam. Bead.....	1565 Ft. Gal.
3/16" (4.76mm) Diam. Bead.....	695 Ft. Gal.

SPECIFICATION COMPLIANCE:

OneStep Adhesive Sealant High Performance Reactive Adhesive Sealant meets the test requirements of:

<ul style="list-style-type: none"> ▪ TT-S-00230 C (Type II) Class A, ▪ Non-sag, One-Component ▪ ASTM C 920 Type S, Grade NS, Class 25, Use-NT, A, M, G and O ▪ AAMA 805.2 Group C, ▪ AAMA 803.3 ▪ AAMA 808.3
--

TYPICAL USES:

- Sealing joints around windows and doors
- Back bedding compound for windows and doors
- Bonding RV and transportation sidewalls, windows, compartments and roofing
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in mini-motor homes
- Sealing butt and lap joints

APPLICATION EQUIPMENT:

Manual or air operated caulking gun or industrial pump system can be used. Hoses from pump and/or header system, and all seals/packings, must be of Teflon or polypropylene. Apply to clean dry surfaces. Cleaning of metal, glass or plastic surfaces should be a solvent wipe procedure or by mechanical means. Detergent or soap and water cleaning treatments are not recommended. Protective films must be removed by a solvent recommended by the manufacturer of the film or by other means which leave no residue. In all cases where used, solvents shall be applied with one clean cloth or lintless paper towel, and the solvent wiped clean with a second cloth or towel. Cleaning solvents should not be allowed to air dry or evaporate without wiping.

GENERAL APPLICATION:

Pretest for adhesion is intended to eliminate potential field problems by testing **OneStep Adhesive Sealant** with samples of building materials on which it will be applied. This testing will aid in determining the proper surface preparation method and effective solvents for cleaning prior to application.

WEATHERABILITY:

OneStep Adhesive Sealant exhibits excellent weatherability when exposed to ultraviolet radiation, rain, infrared radiation, atmospheric hydrocarbons and extremes in temperature (1,000 hours QUV).

LIMITATION:

Not recommended for:

- a) Unprimed masonry joints that will be subjected to continuous water immersion.
- b) On special architectural finishes without pretesting adhesion.
- c) Dynamic expansion joints.

Should not be applied to:

- a) Frost bearing surface or when temperature is below 40°F (4.45°C).
- b) Highly plasticized gasket compounds without proper testing.

PACKAGING:

- 10.1 FL oz. cartridge/ 30 cartridges/ carton
- 600 ml sausage, 12 sausages/ carton
- 2.5 gal pail

SHELF LIFE:

OneStep Adhesive Sealant has a shelf life of twelve (12) months from date of manufacture when stored below 80°F (26.67°C)

CLEAN UP:

The best method for clean-up of uncured **OneStep Adhesive Sealant** is the use of a clean dry rag. Wipe off any excess sealant then allow the residual to cure. Any residual sealant will appear hazy. This haze can be cleaned off using IPA or other suitable solvent. Cured sealant will need to be mechanically removed.

PRECAUTION:

IF THIS PRODUCT IS USED IN DIRECT CONTACT WITH ANY OTHER SEALANT, ELASTOMER, THERMAL-BREAK COMPOUND OR ARCHITECTURAL PAINT, A COMPATIBILITY TEST MUST BE CONDUCTED, BY PURCHASER OR USER, PRIOR TO ACCEPTANCE.

The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance

FIRST AID:

KEEP OUT OF REACH OF CHILDREN.

Avoid skin and eye contact. Avoid breathing of direct concentrated vapors. Use with adequate ventilation. On contact, uncured sealant could cause irritation on the skin and eyes. In case of eye contact flush eyes with warm water for 15 minutes, call a physician. For skin contact, remove sealant with a paper towel. If swallowed do not induce vomiting, call a physician. This product is manufactured for professional and industrial use only. Refer to the Safety Data Sheet (SDS) for further information. For medical emergency only call ChemTrec 1-800-424-9300

Galvalume and Galvalume-Plus are registered trademarks of BIEC International.

ACRYLUME is a registered trademark of United States Steel Corporation.

Kynar 500 is a registered trademark of Arkema, Inc.

ZINCALUME is a registered trademark of BlueScope Steel Limited.

PRIOR TO USE OF THIS MATERIAL,
READ ALL APPROPRIATE SAFETY DATA SHEETS

WARRANTY:

While the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.

ITW Polymers Sealants North America, Inc.'s sole warranty is that the product will meet the sales specification at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

Complete technical information is available from
ITW Polymers Sealants North America, Inc.