



ELASTO-SEAL 227

POLYSULFIDE JOINT SEALANT

1. PRODUCT NAME

ELASTO-SEAL 227

ELASTO-SEAL 227 is a two-part, self leveling or gun-grade, polysulfide sealant, which effectively seals joints that are subject to structural or thermal movement, as well as non-moving joints, against infiltration of water and dirt.

2. MANUFACTURER

PACIFIC POLYMERS INTERNATIONAL, INC.
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3. PRODUCT DESCRIPTION

Composition: Polysulfide based joint sealant.

Basic Uses: For use in sealing reservoirs, dams, canals culverts, and flood control channels. Also used for sealing curtain-wall panels, tilt-up panels, window glazing, flashing and metal setting. Also, for all joint-seal applications, such as expansion and contraction joints in shopping centers, sidewalks or other traffic areas.

It will effectively prevent water from entering the sealed joints and thereby eliminate erosion of the soil underneath the slabs, particularly areas which are exposed to water frequently, such as swimming pool decks and around planters. All coping joints and deck joints should be sealed. In adobe soil areas, unsealed joints may cause swelling of the soil and subsequent buckling and cracking of the concrete slab.

ELASTO-SEAL 227 maintains a low modulus of extension even after prolonged exposure to the elements. This prevents adhesive and cohesive failures which often occur when a caulking compound hardens excessively with aging.

Limitations: The **ELASTO-SEAL 227** is preferred for joints that are subjected to traffic, or severe movement shortly after sealant installation, and for joints of such large dimension that **ELASTO-SEAL 230** would require too much time to cure throughout. Primers may be necessary for certain applications.

Color: Concrete Grey, White, Tan

Sizes: Available in 1 1/2 and 4 1/2 gallon kits. Weighs 12 lbs. per gallon (5.4 kg/gallon).

Standards: Federal Specification TT-S-227e and also USASI Specification A116.1-1967 Class A and B, A.S.T.M. C-920 type M, grade P, NS, class 25.

WARNINGS AND HAZARDS:

Before using the products, always refer to MSDS for important warnings and safety information. Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear suitable eye protection. Always wash hands before eating.

4. TECHNICAL DATA

(See the following page for Technical Data and Chemical Resistance)

5. INSTALLATION

Joint Design: Suitable for all properly designed joints following accepted engineering practices. Joint width must be a minimum of 4 times the anticipated movement.

Surface Preparation: All joints must be absolutely clean. For concrete, sandblasting is recommended. All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed. For non-porous surfaces such as glass, metal, etc., cleaning with M.E.K. or Toluene is recommended. Polyethylene rod or polyurethane foam is recommended as a joint-filler and back-up material. Fillers treated with bituminous products, grease or oil, should not be used. Where present, they must be removed or separated by vinyl tape or polyethylene film. Consult Manufacturer for primer recommendations on certain surfaces or special applications.

Application: Apply by caulking gun, hand or pressure type, or pour from container. Bulk sealant can be applied by pumping equipment, trowel or putty knife. Press firmly into joint to assure good contact.

WIDTH OF JOINT IN METRIC MEASUREMENT (Linear Meter Per Liter)

	Mm	6.4	9.5	12.7	15.9	19	22.2	25.4
DEPTH OF JOINT IN MILLIMETERS	6.4	24.8	16.5	12.4	9.9	8.2	7.1	6.2
	9.5	.....	10.9	8.2	6.6	5.5	4.7	4.1
	12.7	.....	.....	6.2	4.9	4.1	3.5	3.0
	15.9	.....	.....	.....	3.9	3.3	2.8	2.4
	19	.....	.....	.....	.....	2.7	2.3	2.0
	22.2	.....	.....	.....	.....	.....	2.0	1.8
	25.4	.....	.....	.....	.....	.....	.....	1.5

ELASTO-SEAL 227

PROPERTY	TEST METHOD	RESULTS
Consistency Type I Type II	Fed. Spec. TT-S-227e	Self-Leveling/Pourable Gungrade/Non-Sag
Mixing Ratio (A/B) by Volume Type I Type II	---	3:1 12:1
Weight per Gallon Type I - A-Component B-Component Type II- A-Component B-Component	---	13.56 pounds (6.15 kg) 14.31 pounds (6.4 kg) 14.11 pounds (6.4 kg) 11.91 pounds (5.4 kg)
Potlife at 77°F (25°C)	---	2 hours
Tackfree Time at 77°F (25°C)	ASTM C-920	12 hours
Cure Time at 77°F (25°C)	---	24 hours
Tensile Strength ASTM D-412	80 P.S.I.	
% Elongation	ASTM D-412	550%
Peel Strength on Concrete	ASTM C-794	16 P.L.I. cohesive failure
Hardness (Shore A)	ASTM D-2240	20±5
Temperature Service Range	---	-40°F to +175°F -40°C to +79°C
V.O.C. Content	ASTM D-2369-98	0.0 gr./liter

ELASTO-SEAL 227 TWO COMPONENT POLYSULFIDE
The results are based on seven day submersion

<i>Solution</i>	<i>Result</i>	<i>Solution</i>	<i>Result</i>
Aluminum Sulfate Solution 50%	NE	Hydrofluoric Acid 10%	NE
Ammonium Chloride Solution 50%	NE	Jet Fuel	NE
Ammonium Hydroxide Solution 28%	NE	Kerosene	NE
Ammonium Perchlorate 15%	NE	Linseed Oil	NE
Ammonium Perchlorate 50%	NE	Lubricating Oils	NE
Amyl Alcohol	NE	Magnesium Chloride Solutions 20%	NE
Fuel D	NE	Magnesium Hydroxide Solutions 30%	NE
Barium Hydroxide 10%	NE	Methanol	NE
Borax Solutions 25%	NE	Mineral Spirits	NE
Borax Acid Solutions 20%	NE	Motor Oil 10W/40	NE
1-4 Butanediol	NE	Naptha VM&P	NE
n-Butyl Alcohol	NE	Napthalene Oil	NE
Calcium Chloride Solutions 50%	NE	Oleic Acid	NE
Calcium Hydroxide 20%	NE	Oxalic Acid 20%	NE
Calcium Hypochlorite 50%	NE	Paraffinic Oil	NE
Copper Sulfate Solutions 20%	NE	Potassium Hydroxide Solutions 25%	NE
Cyclohexane	NE	Propylene Glycol	NE
Dibutyl Carbitol	NE	SAE 10 Oil	NE
Diethylene Glycol	NE	Sodium Bicarbonate Solutions 50%	NE
Ethyl Alcohol	NE	Sodium Chloride Solutions 25%	NE
Ethylene Glycol	NE	Sodium Hydroxide 50%	NE
Ferrous Sulfate 10%	NE	Sodium Sulfide 25%	NE
Fuel Oil/Diesel Fuel	NE	Stearic Acid 20%	NE
Gasoline	NE	Sulfuric Acid 20%	NE
Gasohol	NE	Transmission Fluid	NE
Heptane	NE	Urea 10%	NE
Hexane	NE	Water (22 ^o C, 72 ^o F)	NE
Hydrochloric Acid 20% Cold	NE	Zinc Chloride 10%	NE
Hydrofluoric Acid 5%	NE		

*NE = No effec