



Pacific Polymers

A Division of **ITW**

ELASTO-THANE 230

POLYURETHANE SEALANT

1. PRODUCT NAME

ELASTO-THANE 230 is a single component, gun-grade, non-sag, moisture-cure polyurethane sealant. The sealant is designed to skin and cure rapidly to a flexible elastomeric rubber. The sealant is designed with outstanding UV resistance and long term durability. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

2. MANUFACTURER

PACIFIC POLYMERS (An ITW Division)
12271 Monarch Street
Garden Grove, CA 92841
Tel: 1-800-888-8340
Fax: 714-898-5687

3. PRODUCT DESCRIPTION

Composition: Polyurethane based joint sealant.

Basic Uses: For sealing and caulking all joints that are subject to contraction and expansion. Bonds to concrete, wood, glass, and metal.

Typical Uses:

- For sealing and caulking all joints that are subject to contraction and expansion.
- Bonds to concrete, wood, glass, and metal.
- Waterproof rivet seams and roof rails
- Masonry Expansion Joints

Advantages:

- Accommodates 50% joint movement
- Flexible and durable
- Excellent weather ability
- Easy to gun- Easy to tool
- Cures to a dough, durable, elastic consistency with excellent cut and tear resistance
- Paintable- non sticky after cure
- VOC compliant- meets and exceeds SAQMD limit

Limitations:

- Cartridge that has been opened must be used up within one or two days since the sealant is a moisture-cured product. It will set up when exposed to air.
- All surfaces must be completely free of foreign matter.
- ELASTO-THANE 230 must not be applied to frost-bearing surfaces or if temperature will be below freezing within 24 hours.
- ELASTO-THANE 230 is not recommended for joints that will be subjected to continuous immersion.
- Do not apply the sealant on special architectural surfaces without proper testing.
- Do not apply on wet surfaces.

Colors: Concrete Grey, White

Available in: Available in 10.5 oz. cartridges and 20.3 oz. (600ml) sausages

SPECIFICATION COMPLIANCE:

ELASTO-THANE 230 meets or exceeds the test requirements of:

- Federal Specification TT-S-230c. Type II, Class A.
- ASTM C920, Type S, Grade NS, Class 25, Use NT, A, M, G and O.
- USDA acceptable for use in meat and poultry areas.

4. **TECHNICAL DATA**

(See Page 3 for technical data.)

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.
- Recommended joint width is ¼" to 1". Sealant should not exceed joint width and in case, should depth be greater than ½" or less than ¼".

- Use of closed cell polyethylene backer-rod or polyurethane foam approximately 25% larger than the width of joint is recommended for deep joints, a bond-breaker film should be used in shallow joints to prevent three-sided adhesion.
- Do not puncture or prime the backer-rod.

Surface Preparation:

- All joints must be absolutely clean, dry and free of oil or grease.
- 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., clean with a good degreasing solvent.
- Fillers treated with bituminous products, grease or oil, should not be used.
- Some surfaces and applications may require the DECK-THANE PRIMER or ELASTO-POXY PRIMER.

Application:

- Apply using a caulking gun, hand pressure type.
- Do not open until ready to use. Cut nozzle to desired bead size. Puncture seal inside spout.
- Fill joints from the deepest point to prevent air entrapment.
- Tooling should be done in one continuous stroke. Tool Sealant with adequate pressure to spread the sealant against the backing material and onto the joint surface.
- If joint surfaces have been masked, remove masking tape immediately after tooling the sealant.
- Best if applied at temperatures above 50°F and below 100°F

6. AVAILABILITY AND COST

ELASTO-THANE 230 is supplied through building material dealers. Prices vary with quantity and packaging. Quotations are made on request.

These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer; those who choose to install these products without professional assistance do so at their own risk.

7. PRODUCT WARRANTY

Satisfactory results depend not only upon quality products but also upon factors beyond our control; methods of application and site conditions are examples of such factors and can affect product performance. This warranty consequently extends only to products installed in strict accordance with the manufacturer's specifications. It is the users responsibility to satisfy himself, by his own information and tests, of the suitability of the product for his own intended use; user assumes all risk and liability resulting from his use of the product. The substrate to which the product is applied must be sound structurally and otherwise. Structural or substrate failures

or imperfections resulting in damage to or failure of the product are not covered by this warranty. Since the use of the product is beyond the control of the manufacturer, the manufacturer assumes no liability for misapplication and misuse of the product.

This warranty does not cover consequential damages, nor does it cover the labor attendant to replacing product in the event of a product failure. The warranty only extends to replacement of the product itself.

All products proven to be defective in manufacture will be replaced at no charge. Since the use of these products is beyond our control we cannot assume any risk or liability for results obtained, nor can we accept damages in excess of the purchase price of these products.

8. MAINTENANCE

If **ELASTO-THANE 230** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **ELASTO-THANE 230**.

9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available at the Pacific Polymers, website at www.pacpoly.com. Since product data and specifications change, it is the users responsibility to make certain the most current versions of product data and specifications are being used.

Technical assistance can be obtained by contacting:

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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.

WIDTH OF JOINT

	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
DEPTH OF JOINT	1/4"	308	205	154	123	102	88	77
	3/8"	.....	136	102	82	68	58	51
	1/2"	.....	.....	77	61	51	44	38
	5/8"	.....	.....	.....	41	39	35	30
	3/4"	.....	.....	.....	.....	34	29	25
	7/8"	.....	.....	.....	.....	.....	25	22
	1"	.....	.....	.....	.....	.....	.....	19

Linear Feet Per Gallon of ELASTO-THANE 230

	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

Linear Meter per Liter**4. TECHNICAL DATA – ELASTO-THANE 230**

PROPERTY	TEST METHOD	RESULTS
Consistency Non-Sag	ASTM C-920	Type II
Service Temperature Range	---	-40°F (-40°C) to 180°F (82.2°C)
Tackfree Time at 77°F (25°C); 50% R.H.	Fed. Spec. TT-S-230c	16-24 hrs.
Movement Capability	ASTM C-719	±25%
Tensile Strength at 77°F (25°C)	ASTM D-412	250 psi
Rheological (sag in vertical at 120°F (49°C))	ASTM C-639	No sag (displacement)
Bond Durability (±25% movement) (On glass, aluminum concrete)	ASTM C-719	No Failure
Cure Time at 77°F (25°C); 50% R.H.	Observed	4-7 days
% Elongation	ASTM D-412	500%
Shrinkage	---	Negligible
Hardness (Shore A)	ASTM D-2240	25±5
Weight Per Gallon	---	12.0±0.5 lbs.(5.4±0.2 kg)
V.O.C. Content	ASTM D-2369-98	30 gr/liter