ELASTO-THANE 230

JOINT SEALANT

1. PRODUCT NAME

ELASTO-THANE 230

ELASTO-THANE 230 is a one-part, gun-grade, non-staining, polyurethane sealant which cures at ambient temperature to a firm, flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

2. MANUFACTURER

PACIFIC POLYMERS INTERNATIONAL, INC.
12271 Monarch Street
Garden Grove, CA 92841
714/898-0025
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.

Limitations: Containers that have been opened must be used up within one or two days since it is a moisture-reactive material. It sets up when exposed to air. All surfaces must be completely free of foreign matter. **White color may discolor from exposure to U.V. and also from fluorescent light.**

Colors: Concrete Grey, Aluminum Grey, Limestone, White, Tan, Off-White

Sizes: Available in 5-gallon pails, 10.5 oz. cartridges and 20.3 oz. (600ml) sausages

Standard: Federal Specification TT-S-230c. Type II, Class A.

ASTM C-920-87, Type S, Class 25, Use NT,M, and A.

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 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.

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. Some surfaces may require the DECK-THANE PRIMER.

Application: Apply by caulking gun, hand-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 to the sides of the joint. Best if applied at temperatures below 100^{o}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 International, Inc. 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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WIDTH OF JOINT

DEPTH OF JOINT	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
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 Type II	ASTM C-920	Non-Sag
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 displacement) at 120°F (49°C)	ASTM C-639	No sag
Extrudability	ASTM C-603	2 seconds
Weight Loss, after heat aging	ASTM C-792	9%
Cracking and Chalking, after heat aging	ASTM C-792	None
Stain and color change	ASTM C-510	Passes (no visible stain)
Bond Durability (±25% movement) (On glass, aluminum concrete)	ASTM C-719	No Failure
Accelerated Weathering	ASTM C-793	No physical damage
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