PACIFIC POLYMERS

ELASTO-THANE 230MP

POLYURETHANE SEALANT

1. PRODUCT NAME

ELASTO-THANE 230MP 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. **ELASTO-THANE 230MP** is designed for multi-purpose applications. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

2. MANUFACTURER

ER SYSTEMS (An ITW Company)
12271 Monarch Street
Garden Grove, CA 92841
Tel: 1-800-888-8340
Fax: 714-898-5687

3. PRODUCT DESCRIPTION

Composition: Polyurethane based joint sealant.

Typical Uses:

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

Advantages:

- Movement Capability +/- 25% joint movement
- Flexible and durable
- Good weather ability
- Easy to gun – Easy to tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Paintable – non sticky after cure
- VOC complaint – meets and exceeds SCAQMD limit
- Low modulus Sealant

Limitations:

- Cartridge and/or sausage that had 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 230MP** must not be applied to frost-bearing surfaces or if temperature will be below freezing within 24 hours.
- **ELASTO-THANE 230MP** 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.

Available Colors: Concrete Grey, White and Tan

Sizes: 10.1 oz. (300ml) cartridges and 20 oz. 594ml) sausages

SPECIFICATION COMPLIANCE:
ELASTO-THANE 230MP is manufactured to meet or exceed 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 =

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.
- Joint width is ¼" to 1". Sealant depth should not exceed ½ the joint width.
- 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 **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 50F and below 100°F.

6. AVAILABILITY AND COST

ELASTO-THANE 230MP MASTIC is supplied through building material dealers

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 user's 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 imperfect

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

9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available at www.pacpoly.com. Since product data and specifications change, it is the user's 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 Material Safety Data Sheet (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. **KEEP OUT OF REACH OF CHILDREN**.

4. TECHNICAL DATA – ELASTO-THANE 230MP

PROPERTY	TEST METHOD	TYPICAL RESULTS
Service Temperature Range	---	-40 ^{O}F (-40 ^{O}C) to 180 ^{O}F (82.2 ^{O}C)
*Tack-free (@77^{o}F (25^{o}C), 50% RH min)	Observed	16 – 24 hrs
*Cure Time	--	4 – 7 days
Tensile Strength	ASTM D-412	100 psi (0.7 N/mm^{2}) min
Elongation	ASTM D-412	400 – 500 %
Rheological (sag in vertical displacement) at 120 ^{O}F (49 ^{O}C)	ASTM C-639	No Sag
Peel Adhesion	ASTM C 794	5 pli (concrete) minimum
Extrudability	ASTM C-603	excellent
Weight Loss, after heat aging	ASTM C-792	<4%
Cracking and Chalking, after heat aging	ASTM C-792	none observed
Stain and color change	ASTM C-510	no visible stain
Accelerated Weathering	Q-Panel Weathering	no chalking, discoloration (500 hours)
Hardness (Shore A)	ASTM D-2240	30 +/- 5
Flash Point	Pensky Marten Closed Cup	>148^{O}F (64.4^{O}C)
Shelf Life		12 months when stored at or below 80^{O}F
VOC Content		30 grams per liter
Weight Per Gallon		8.30 +/- 0.3 lbs

(*Skin and Cure times are dependent on temperature, humidity, and porosity of the substrates. Low humidity, cooler temperature and non-porous substrates will lengthen these times.)

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 230MP

DEPTH OF JOINT IN MILLIMETERS	mm	6.4	9.5	12.7	15.9	19	22.2	25.4
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