



---

# **PACIFIC POLYMERS** **ELASTO-THANE 227/227R**

## **POLYURETHANE JOINT SEALANT**

### **1. PRODUCT NAME**

**ELASTO-THANE 227/227R** is a two-part, gun-grade, non-staining, polyurethane sealant which cures 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**

ER SYSTEMS (An ITW Company)  
12271 Monarch Street  
Garden Grove, CA 92841  
Tel: (714) 898-0025  
FAX (714) 898-5687

### **3. PRODUCT DESCRIPTION**

**Composition:** Polyurethane based joint sealant.

**Basic Uses ELASTO-THANE 227:** For sealing and caulking all joints that are subject to movement caused by expansion and contraction of structures with changes in temperature. **ELASTO-THANE 227R:** For sealing and caulking joints that are subject to water immersion, such as reservoirs, water tanks, canals, etc. (Joint surfaces subject to water immersion must be primed with **DECK-THANE PRIMER** or **Elasto-Poxy Primer VOC**).

Bonds to masonry, wood, glass and metal.

#### **Not resistant to chlorine**

**Limitations:** Containers of Component B 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. Store containers in dry places.

**Color:** Concrete Grey

**Sizes:** Available in 1.5 gallon kits.

**Standard:** Federal Specification TT-S-227e and USASI Specification A116.1-1967. ASTM C-920 Grade NS, Type M. (Total movement capability 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 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. Sandblasting is recommended for concrete joints. All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed. 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 completely removed or separated by vinyl tape or polyethylene film.

All surfaces—specifically those subject to water immersion must be primed with **DECK-THANE PRIMER** or **Elasto-Poxy Primer VOC**.

**Application:** Mechanically mix the A & B Components together thoroughly using a low speed drill and jiffy type mixing blade. This gun-grade type sealant may be applied using a bulk caulking gun, hand-pressure-type. Tool the sealant firmly into the joint to assure good

contact of the sealant to both the sides of the joints.

**6. AVAILABILITY AND COST**

**ELASTO-THANE 227/227R** 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 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 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 227/227R** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **ELASTO-THANE 227/227R**.

**9. TECHNICAL SERVICES**

All of the latest updates to product data and specifications are available at [www.pacpoly.com](http://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:

ER SYSTEMS (An ITW Company)  
 12271 Monarch Street  
 Garden Grove, CA 92841  
 Tel: (714) 898-0025  
 FAX (714) 898-5687

**WIDTH OF JOINT**

	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
<b>DEPTH OF JOINT</b>	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
	<b>Linear Feet per Gallon of ELASTO-THANE 227</b>							

## **WIDTH OF JOINT IN**

	mm	6.4	9.5	12.7	15.9	19	22.2	25.4
<b>DEPTH OF JOINT IN MILLIMETERS</b>	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
	<b>Linear Meter per Liter</b>							

#### **4. TECHNICAL DATA – ELASTO-THANE 227/227R**

Consistency	Fed. Spec. TT-S-227e	Non-Sag/Gungrade
Potlife at 77°F (25°C)	---	2 hrs.
Tackfree Time at 77°F (25°C), 50% R.H.	Fed. Spec. TT-S-227e	10 ± 2 hrs.
Service Temperature Range	---	-40°F(-40°C)to 180°F (82.2°C)
Cure Time at 77°F (25°C), 50% R.H.	Observed	48-72 hours
Hardness (Shore A)	ASTM D-2240	45±5
% Elongation	ASTM D-412-98	350% ± 10%
Tensile Strength	ASTM D-412-98	300 psi ± 10%
Tear Strength	ASTM D-624	85 pli ± 10%
Weight Per Gallon A-Component B-Component	---	10.54 pounds (4.78 kg) 8.96 pounds (4.06 kg)
V.O.C. Content	ASTM D-2369-98	0.0 gr