



# ELASTO-THANE 227/227R

## TWO COMPONENT POLYURETHANE JOINT SEALANT

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION:

Pacific Polymers® ELASTO-THANE 227/227R is a two-part, gun-grade, non-staining, polyurethane sealant. It is cold applied and cures to a firm, flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

#### BASIC USES:

For sealing and caulking all joints that are subject to movement caused by expansion and contraction of structures with changes in temperature. It also bonds to masonry, wood, glass and metal.

Note: For sealing and caulking joints that are subject to constant water immersion, such as reservoirs, water tanks, canals, etc... Joint surfaces must be primed with **DECK-THANE PRIMER** or **ELASTO-POXY PRIMER VOC**.

#### ADVANTAGES:

- Durable and Flexible
- Flexible at low temperatures
- Fast return to service after application

#### TYPICAL PROPERTIES:

PROPERTY	TYPICAL RESULTS
Pot Life @75°F (25°C)	2 hour
Color	Concrete Grey
Shore "A" Hardness (ASTM D2240)	45A ± 5A
Cure-Time at 77°F (25°)	48 - 72 hours
Tack Free Time at 77°F (25°)	10 ± 2 hours
Consistency:	Non-Sag/Gun Grade
Solids content by weight	> 99%
Solids content by volume	> 99%
V.O.C.	< 5 g/L, EPA Method 24
Flash Point	>200°F (93.3°C)
Weight per Gallon:	
A Component	10.54 lbs/ gal
B Component	8.44 lbs/ gal
Ultimate Elongation (ASTM D412)	350% ± 10%
Tensile Strength (ASTM D412)	300 psi ± 10psi
Tear Strength (ASTM D412)	85 pli ± 10 pli
Consistency	Non-sag/ Gun grade
Service Temperature Range	-40°F (-40°C) – 180°F (82.2°C)
** The shelf life for an unopened container stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 1 year from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall	

#### SPECIFICATION COMPLIANCE:

Pacific Polymers® ELASTO-THANE 227/227R is manufactured to comply with the following:

Federal Specification TT-S-227e  
USASI A116 a-1967  
ASTM C920, Grade NS, Type M  
(Total movement capability – 25%)

#### INSTALLATION:

- Suitable for all properly designed joints following accepted engineering practice.
- Joint width should be a minimum of 4 times the anticipated movement.

#### Surface Preparation:

- Concrete joints must be accurately formed.
- Joint must be dry, sound, clean and free from dirt.
- Sandblasting is recommended for concrete substrates to achieve the desired profile for bonding. Remove all dust and laitance after sandblasting and/or grinding the concrete. Avoid polishing the joint sides if grinding is required.
- Use dry compressed air (free of oil) to blow off any debris from grinding and blasting.
- All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed.
- Polyethylene rod or polyurethane foam is recommended as a joint-filler and backup 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.

#### 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.

#### 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.

#### Not resistant to chlorine

**TEMPERATURE CONSTRAINTS:**

- Minimum application temperature is 40°F (4°C) and rising and more than 5°F above dew point.
- Contact Technical Service when substrates are over 90°F (32°C) or under 40°F (4°C).
- Avoid application when inclement weather is present or imminent.
- Do not apply to damp, wet, or contaminated surface

**AVAILIBLITY AND COST:**

- ELASTO-THANE 227/227R** 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.

**SIZES:**

1.5 gallon kit

**WARNINGS AND HAZARDS:**

- Before using the products, always refer to SDS 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.

**MAINTENANCE:**

If **ELASTO-THANE 227/227R** is damaged, and the joint has not been contaminated, it can be repaired by cutting out the affected are and resealing it. The joint shall require sanding and/or grinding to remove the existing sealant completely to achieve proper adhesion.

**CLEAN UP:**

Equipment and tools should be cleaned immediately after use with acetone or other exempt solvent.

**TECHNICAL SERVICE**

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.

**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.

Complete technical information is available from ITW Polymers Sealants North America, Inc.

**Table 1:** Linear Feet Per Gallon (meter/ liter) of ELASTO-THANE 227/227R

		Width of Joint, inches (mm)						
		¼" (6.4mm)	3/8" (9.5mm)	½" (12.7 mm)	5/8" (15.9 mm)	¾" (19 mm)	7/8" (22.4 mm)	1" (25.4 mm)
Depth of Joint, inches (mm)	¼" (6.4mm)	308 (24.8)	205 (16.5)	154 (12.4)	123 (9.9)	102 (8.2)	88 (7.1)	77 (6.2)
	3/8" (9.5mm)	.....	136 (10.9)	102 (8.2)	82 (6.6)	68 (5.5)	58 (4.7)	51 (4.1)
	½" (12.7 mm)	.....	.....	77 (6.2)	61 (4.9)	51 (4.1)	44 (3.5)	38
	5/8" (15.9 mm)	.....	.....	.....	41	39	35	30
	¾" (19 mm)	.....	.....	.....	.....	34	29	25
	7/8" (22.4 mm)	.....	.....	.....	.....	.....	25	22
	1" (25.4 mm)	.....	.....	.....	.....	.....	.....	19