PACIFIC POLYMERS
ELASTO-THANE 200

JET FUEL RESISTANT JOINT SEALANT

1. PRODUCT NAME

ELASTO-THANE 200

ELASTO-THANE 200 is a two-part, self-leveling jet fuel resistant polyurethane sealant which cures to a soft, flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation. The **ELASTO-THANE 200** is a petroleum process oil extended product.

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

Composition: Two-component, cold applied, modified polyurethane based joint sealant.

Basic Uses: For sealing joints in airfield runways, parking aprons, cargo areas, and other areas where joints may be subjected to fuel, and oil spillage.

Versions:

Type H: For hand mix applications.

Pot Life: 1 hour

Type M: For application with an automatic proportioning and mixing machine.
Pot Life: 5 minutes

Advantages:

- Available in two versions, Hand-Mix (Type-H) and Machine-Mix (Type-M)
- Durable and Flexible
- Flexible at low temperatures
- Fast return to service after application
- Self Levels, hence tooling not required

Limitations:

B-Component is moisture reactive. Containers that have been opened must be used immediately. Prolonged exposure to moisture can result to surface skin.

Shelf Life: 1 year at 77°F (25°C) and 50% R.H.

Color: Black only.

Available Sizes:

Hand-Mix (Type-H): 2 gallon kit

Machine Mix (Type-M)**:** 10 gallon kit & 110 gallon kit

Approximate Weight per Gallon: 9.5 lbs (4.3kg/gallon)

Standards: Conforms to Federal Specification SS-S-200D, manufactured to comply with British Standard BS 5212, Table-1, Type-F.

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 practice.

Joint width should be a minimum of **4** times the anticipated movement.

Surface Preparation:

- Joints slots in the concrete must be accurately formed.
- Joint slots must be dry, sound, clean and free from dirt.
- Sandblasting is recommended for concrete substrates to achieve good bond 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.

Priming:

- All concrete Joints faces must be primed with DECK-THANE PRIMER, a polyurethane based primer, manufactured by ER SYSTEMS. *
- Prime the joint faces with a thin uniform coat of primer and allow to cure tack-free. Make sure enough time is given to allow solvent to evaporate before sealing with ELASTO-THANE 200.
- Drying time for the primer will depend on climate conditions (temperature and humidity). Under normal conditions, the primer tacks in less than 2 hours.
- Do not apply Primer to a damp or wet substrate.

Application:

Mixing:

Premix/Stir lightly without entrapping air pockets, the Resin Component (A-Part) prior to usage to make sure a homogeneous mixture is achieved. For ease of application, condition the components to at least 70^0F to 75^0F (21^0C to 23.9^0C). The Resin Component should be warmed slightly higher in order to get the viscosity closer to the ISO Component (B-Part).Prior to application, determine the working condition of the mixing machine to make sure volume ratios are correct.

Hand-Mix Version (Type-H):

Type-H version comes in pre-weighed 1-gallon containers. Empty both components completely into a suitable (larger) container. Drill mix using a jiffy mixing paddle at 400 – 600 rpm for 3 to 5 minutes. We suggest scraping the wall of the mixing container to achieve a homogeneous mixture. Apply the mixed components into the primed joints. Avoid overfilling the joints. Do not aerate the mixing process to help prevent blisters, bubbles and/or pinholes.

Machine-Mix Version (Type-M):

The **ELASTO-THANE 200** Machine Mix must be applied by a special plural component mechanical mixer which properly proportions the material.

Extrude the mixed sealant into the joint at suggested width and thickness. Avoid overfilling the joints. The joints should be filled so that the finished level of the seal is slightly below the trafficked surface. Ensure that expansion joint filler is tightly packaged in the joint.

6. AVAILABILITY AND COST

Prices vary with quantity and packaging. Quotations are made upon 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 did not obtain, nor can we accept damages in excess of the purchase price of these products.

8. MAINTENANCE

If **ELASTO-THANE 200** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **ELASTO-THANE 200** Type H.

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 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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4. TECHNICAL DATA (ELASTO-THANE 200)

PROPERTY	TEST METHOD or STANDARD	RESULTS
Consistency	Fed. Spec. SS-S-200d	Self-Leveling/Pourable
Pot Life at 77^{O}F (25^{O}C)	Fed. Spec. SS-S-200d	
Type H	1 hour	passes (1 hour)
Type M	---	Passes (5 minutes)
Tack free time at 77^{O}F (25^{O}C)		
Type H	12 hours maximum	passes (12 hours)
Type M	<3 hours	Passes (1 hour)
Cure time		
Type H	---	48-72 hours
Type M	---	24 hours
Weight per gallon		
A-Component	---	9.77 pounds (4.43 kg)
B-Component	---	8.44 pounds (3.83 kg)
Hardness	ASTM D-2240	10 Shore "A"
Elongation	ASTM D-412	1000%
Bond to concrete, water immersed -20^{O}F (-29^{O}C)	same as nonimmersed	Passed
Flame Resistance	Shall not support combustion, flow, harden, or lose adhesive strength.	Passed
Resilience	Fed. Spec. SS-S-200d	
Unaged		
Percent	Minimum of 75%	86%
Initial Indentation	0.05-0.20 cm	0.17 cm

Aged		
Percent	Minimum of 75%	88%
Initial Indentation	0.05-0.20 cm	0.15 cm
Bond to concrete (nonimmersed) -20^{O}F (-29^{O}C)	No surface cracking, separation, or other opening in the sealant. No hardness loss, or loss of rubber-like characteristics in the sealant.	Passes
Bond to concrete (fuel immersed) -20^{O}F (-29^{O}C)	No surface cracking, separation, or other opening in the sealant. No hardness loss, or loss of rubber-like characteristics in the sealant.	Passes
Change in weight by fuel immersion	Shall not exceed 5.0% of the initial weight	2.5%
Change in volume on exposure to high temperature, 158^{O}F (70^{O}C), 168 hours	Shall not exceed 5.0% of the initial volume	1.5%
Viscosity-Hand Mix	Brookfield Viscometer	
A-Component		40±10 poises
B-Component		40±10 poises
Viscosity-Machine Mix	Brookfield Viscometer	
A-Component		125±25 poises
B-Component		40±10 poises

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