



# ELASTO-DECK B.T.

## ELASTOMERIC MEMBRANE WATERPROOFING SYSTEM COALTAR-FREE

### 1. PRODUCT NAME

#### ELASTO-DECK B.T.

A black, liquid applied single-component moisture-cured polyurethane coating, designed to form a seamless, flexible rubber membrane impervious to moisture.

**Type I:** For horizontal surfaces.

**Type II:** For vertical surfaces.

### 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 elastomer. A two-component system is available, which does not depend on atmosphere moisture to cure.

**Basic Uses:** Once cured, **ELASTO-DECK B.T.** allows expansion and contraction over a broad temperature range and maintains waterproofing properties under continuous exposure to water. **ELASTO-DECK B.T.** Type II has a thixotropic consistency and may be used on vertical as well as horizontal surfaces. **ELASTO-DECK B.T.** remains flexible from  $-75^{\circ}\text{F}$  to  $+175^{\circ}\text{F}$  ( $-59^{\circ}\text{C}$  to  $79^{\circ}\text{C}$ ). **ELASTO-DECK B.T.** waterproof membrane is intended for use wherever overflow water must be contained.

#### **Suggested areas of application are as follows:**

1. Waterproofing in between concrete slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
2. Waterproofing below grade exterior walls or foundations and basements or other structures that are to be backfilled.
3. Waterproofing inside planter boxes.
4. Waterproofing under terrazzo or tile floors.
5. Waterproofing under showerpans, kitchen, laundry and bathroom floors.
6. Waterproofing inside of elevated swimming pools.
7. Waterproofing of occupied areas under malls, plazas and promenades.

**Water Tanks:** **ELASTO-DECK B.T.** has been used with outstanding success as a lining for emergency water storage tanks. Non drinkable water. The **ELASTO-DECK B.T.** bridges hairline cracks and because of the materials flexibility, allows them to move with changes in temperature. The product is fully bonded to the substrate so water cannot flow underneath the lining as it can with sheet lining materials. In continuously submerged applications, the Elasto-Poxy Primer must be used prior to installing the Elasto-Deck B.T. Appropriate safety procedures must be followed when using this product in a confined space. For potable water applications, refer to Elasto-Deck B.T. Reservoir Grade.

**Limitations:** Containers that have been opened must be used 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 and dry.

**Shelf Life:** 6 months at  $77^{\circ}\text{F}$  ( $25^{\circ}\text{C}$ ) when stored indoors in cool and dry location.

#### **Advantages:**

1. **ELASTO-DECK B.T.** is a single-component compound that may be used directly from the container with no mixing required.
2. The addition of catalysts are not necessary, as **ELASTO-DECK B.T.** is a moisture-cured compound.
3. May be applied by spray equipment, brush, roller, squeegee or trowel, without the need for heating the material.
4. May be applied over concrete, stone, brick, cement blocks, wood, metal, asbestos and most other surfaces.
5. **ELASTO-DECK B.T.** cuts cost of application by eliminating mixing, splicing, sealing tapes, adhesives and other labor consuming methods required when installing other conventional types of waterproofing systems.
6. The superior flexibility and elongation properties of **ELASTO-DECK B.T.** allows expansion and

Pacific Polymers International, Inc.

Corporate Offices, 12271 Monarch Street, Garden Grove, CA 92841 USA • Toll Free: 800.888.8340 • Phone: 714.898.0025 • [www.pacpoly.com](http://www.pacpoly.com)

contraction with the substrate, without cracking or becoming brittle.

7. Does not contain any potentially hazardous coal tar.

**Color:** Black only.

**Sizes:** 1 gallon cans, 5 gallon pails and 55 gallon drums

**Standards:** A.S.T.M. C836-95.

**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)**

Elasto-Deck B.T. is approved for waterproofing floors and walls below adjacent grade as required by Sections 91.1402.4 and 91.1402.5 of the 1999 Los Angeles City Building Code. Research Report: RR 24350 (CSI #07140)

**5. INSTALLATION**

**ELASTO-DECK B.T.** is best applied by airless spray. However, when the job does not lend itself to spraying, it may also be applied by roller, brush or squeegee.

All cracks over 1/16" (1.6mm) in width must be filled and covered with **ELASTO-THANE 500**. This product may be applied by trowel or caulking gun. There is no need to wait for this product to cure before applying the **ELASTO-DECK B.T.** since they are completely compatible.

A dry film thickness of 60 mils (1.5mm) is recommended over concrete surfaces. Extremely porous substrates should be filled prior to coating or receive additional **ELASTO-DECK B.T.**

**ELASTO-DECK B.T.** may be used in a single 60 mil (1.5mm) application over sound surfaces without danger of gassing. Application must be made uniformly to avoid thin spots and care must be taken to avoid pinholes and repair them should they occur. Coverage to obtain 60 dry mils is 20 sq. ft./gallon (0.48 m<sup>2</sup>/liter). Where a two coats application is preferred, two coats at 40 sq. ft./gallon (0.96 m<sup>2</sup>/liter) per coat are to be applied, allowing a 24 hour cure time between coats.

Protection board must be used prior to backfilling or pouring the concrete topping slab.

**6. AVAILABILITY AND COST**

**ELASTO-DECK B.T.** 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-DECK B.T.** is damaged, it can be repaired by cleaning the surface and recoating it with **ELASTO-DECK B.T.**

**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](http://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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#### 4. TECHNICAL DATA – ELASTO-DECK B.T.

Property	Test Method	Type-1	Type-2
Viscosity (poise)	Brookfield Viscometer	40± 5	350± 50
Weight per Gallon			
Pounds		10.10± .2	9.1± .2
Kilograms		4.50± 0.1	4.10± 0.1
Percent Solids	ASTM D-2369-98		
Weight		86 ± 2	82 ± 2
Volume		78 ± 2	77 ± 2
Tackfree Time	---	12-16 hrs	12-16 hrs
at 77°F (25°C) and 55% R.H.			
Recoat Time	---	16-24 hrs	16-24 hrs
at 77°F (25°C) and 55% R.H.			
Hardness ( shore A )	ASTM D2240-97	40 ± 5	35 ± 5
Tensile Strength ( psi )	ASTM D412-98	300 ± 10%	436
(N/sq.m)		2.1	3.0
Percent Elongation	ASTM D-412-98	700 ± 10%	700 ± 10%
Water Vapor Transmission	ASTM E-96-00	0.72	0.72
( grains/hr/ sq.ft)	(procedure B) water method		
Adhesion to Concrete	ASTM D-903-98	14.9 lb/in (2.79kg/cm)	19 lb/in (3.38 kg/cm)
		no peel/film break	
Hydrostatic Pressure Resistance	ASTM D-751-00		94 psi ( 0.65 N/sq.m)
Resistance to Decay	ASTM D-154	no surface defects	
Moisture Vapor Transmission	---	N.av.	1.563
(grains/hr/sq.ft) (after decay test)			
Flash Point	---	120°F (49°C)	150°F (66°C)
Recovery (percent)	ASTM D-412-98	98%	96%