

# Product BULLETIN



COATINGS • SEALANTS • MEMBRANES • POLYUREAS

## ELASTO-DECK™ BT

## Coal-tar-free Elastomeric Waterproofing Membrane

### ADVANTAGES

- Single-component, moisture-cured, no mixing or catalysts are required
- A two-component version is available with a shorter tack-free time
- A reservoir grade version is available for potable water
- No splicing, sealing tapes, adhesives, and other labor consuming methods
- Superior flexibility and elongation properties allow expansion and contraction with the substrate without cracking or becoming brittle
- Does not contain coal tar

### APPLICATIONS

- May be applied over and between concrete slabs, stone, brick, cement blocks, wood, metal, and other surfaces
- Below-grade foundations, basements, exterior walls, and backfilled structures
- Inside planter boxes
- Under terrazzo, tile floors, showerpans, kitchen, laundry, and bathroom floors
- Inside elevated swimming pools
- Above occupied areas under malls, plazas, and promenades
- Outstanding as a lining for emergency water storage tanks

*A seamless, flexible rubber membrane, free of coal-tar, that is impervious to moisture, even under continuous exposure to water.*

A black, liquid applied single-component moisture-cured polyurethane coating, designed to form a seamless, flexible rubber membrane. It allows expansion and contraction over a broad temperature range and maintains its waterproofing properties under all conditions.



Step 1: Prime; apply EDBT; cure 24 hrs; apply 2nd coat.



Step 3: Lay protection sheet.



Step 2: Cure 24 hrs and complete submersion test.



Step 4: Pour concrete and score.



Weather Station, below-grade waterproofing, Puerto Rico.

**Pacific Polymers International, Inc.** • 12271 Monarch St., Garden Grove, CA 92841 USA  
Phone: 714.898.0025 • Fax: 714.898.5687 • <http://www.pacpoly.com>

## BASIC USES

Type II has a thixotropic consistency and may be used on vertical as well as horizontal surfaces.

**ELASTO-DECK™ BT** remains flexible from -75°F to +175°F (-59°C to 79°C). This waterproof membrane is intended for use wherever overflow water must be contained.

**Type I:** For horizontal surfaces.

**Type II:** For vertical surfaces.

### Water Tanks:

**ELASTO-DECK™ BT** has been used with outstanding success as a lining for emergency water storage tanks. It 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. For potable water applications, refer to **ELASTO-DECK™ BT RESERVOIR GRADE**. A two-component system is also available, which uses a non-toxic catalyst, has a faster tack time, and does not depend on atmosphere moisture to cure.

## INSTALLATION

**ELASTO-DECK™ BT** 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™ BT** 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 product. It 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.

## AVAILABILITY AND COST

Supplied through building material dealers. 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.



## MAINTENANCE

If **ELASTO-DECK™ BT** is damaged, it can be repaired by cleaning the surface and recoating it with **ELASTO-DECK™ BT**.

## TECHNICAL DATA

**ELASTO-DECK™ BT** is approved for waterproofing floors and walls below adjacent grade as required by Sections 91.1402.4 and 91.1402.5 of the 2002 Los Angeles City Building Code. Research Report: RR 24350 (CSI #07140). Approved for shower pan and fire protection, and non-potable water tank liners, Uniform Building Code Standard 9-1, 2002; and Sections 1-7 and 4-7 of the NFPA 22, 1996. Research Report: RR 5271.

## PRODUCT WARRANTIES

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 accept damage in excess of the purchase price of these products.

## TECHNICAL SERVICES

Technical assistance can be obtained by contacting:

## PACIFIC POLYMERS INTERNATIONAL, INC.

12271 Monarch Street  
Garden Grove, CA 92841  
(714) 898-0025  
FAX (714) 898-5687

# TECHNICAL DATA

PROPERTY	TEST METHOD	TYPE I	TYPE II
Viscosity (poise)	Brookfield Viscometer	40 ± 5	35 ± 50
Weight per Gallon	Pounds	10.10 ± 0.2	9.1 ± 0.2
Percent Solids (Weight / Volume)	ASTM D-2369-98	86 / 78 ± 2	82 / 77 ± 2
Tackfree Time (at 77°F (25°C) and 55% R.H.)		12-16 hrs	12-16 hrs
Recoat Time (at 77°F (25°C) and 55% R.H.)		16-24 hrs	16-24 hrs
Hardness (shore A)	ASTM D-2240-97	40 ± 5	35 ± 5
Tensile Strength (psi)	ASTM D-412-98	300 ± 10%	436
Percent Elongation	ASTM D-412-98	700 ± 10%	700 ± 10%
Water Vapor Transmission (grains/hr/ sq.ft)	ASTM E-96-00	0.72	0.72
Adhesion to Concrete (no peel/film break)	ASTM D-903-98	14.9 lb/in	19 lb/in
Hydrostatic Pressure Resistance	ASTM D-751-00	94 psi	94 psi
Resistance to Decay	ASTM D-154	no surface defects	
Moisture Vapor Transmission (grains/hr/ sq.ft)		N/a	1.563
Flash Point		120°F (49°C)	150°F (66°C)
Recovery (percent)	ASTM D-412-98	98%	96%
Shelf Life (when stored indoors at 77°F (25°C) in unopened containers)		12 months	12 months



## ELASTO-DECK BT

### ELASTOMERIC MEMBRANE WATERPROOFING SYSTEM COALTAR-FREE

#### PRODUCT DESCRIPTION:

**ELASTO-DECK BT** is a black, liquid applied single-component moisture-cured polyurethane coating, designed to form a seamless, flexible rubber membrane impervious to moisture. Once cured, ELASTO-DECK BT allows expansion and contraction over a broad temperature range and maintains waterproofing properties under continuous exposure to water. A two-component system is available, which does not depend on atmosphere moisture to cure.

**TYPE I:** For horizontal surfaces.

**TYPE II:** For vertical surfaces.

#### MANUFACTURER:

PACIFIC POLYMERS INTERNATIONAL, INC.  
12271 Monarch Street  
Garden Grove, CA 92841 USA  
714/898-0025 FAX (714) 898-5687  
<http://www.pacpoly.com>

#### BASIC USES:

ELASTO-DECK BT Type II has a thixotropic consistency and may be used on vertical as well as horizontal surfaces. ELASTO-DECK BT remains flexible from  $-75^{\circ}\text{F}$  to  $+175^{\circ}\text{F}$  ( $-59^{\circ}\text{C}$  to  $79^{\circ}\text{C}$ ). ELASTO-DECK BT waterproof membrane is intended for use wherever overflow water must be contained.

**COLORS:** Black only.

**SIZES:** 1 gallon cans, 5 gallon pails and 55 gallon drums.

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

#### 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 BT has been used with outstanding success as a lining for emergency non-potable water storage tanks. The ELASTO-DECK BT 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, ELASTO-POXY PRIMER must be used prior to installing the ELASTO-DECK BT. Appropriate safety procedures must be followed when using this product in a confined space.

#### ADVANTAGES:

1. ELASTO-DECK BT 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 BT 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 BT 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 BT allows expansion and contraction with the substrate, without cracking or becoming brittle.
7. Does not contain any potentially hazardous coal tar.

#### INSTALLATION:

ELASTO-DECK BT 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 BT 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 BT



ELASTO-DECK BT 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.

## **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.

## **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.

## **TECHNICAL DATA:**

ELASTO-DECK BT 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)

## **TECHNICAL SERVICES:**

All of the latest updates to product data and specifications are available at the company website. 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.

## **MAINTENANCE:**

If ELASTO-DECK BT is damaged, it can be repaired by cleaning the surface and recoating it with ELASTO-DECK BT.

## **AVAILABILITY AND COST:**

ELASTO-DECK BT 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.

## **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 damage in excess of the purchase price of these products.

# TECHNICAL DATA - ELASTO-DECK BT



PROPERTY	TEST METHOD	RESULTS	
		TYPE I	TYPE II
Viscosity (poise)	Brookfield Viscometer	40 ± 5	35 ± 50
Weight per Gallon			
Pounds		10.10 ± 0.2	9.1 ± 0.2
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 at 77°F (25°C) and 55% R.H.		12-16 hrs	12-16 hrs
Recoat Time at 77°F (25°C) and 55% R.H.		16-24 hrs	16-24 hrs
Hardness (shore A )	ASTM D-2240-97	40 ± 5	35 ± 5
Tensile Strength (psi )	ASTM D-412-98	300 ± 10%	436
(N/sq.m)		2.1	3.0
Percent Elongation	ASTM D-412-98	700 ± 10%	700 ± 10%
Water Vapor Transmission (grains/hr/ sq.ft)	ASTM E-96-00	0.72	0.72
	(procedure B) water method		
Adhesion to Concrete	ASTM D-903-98	14.9 lb/in (2.79kg/cm) no peel/film break	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)	94 psi (0.65 N/sq.m)
Resistance to Decay	ASTM D-154	no surface defects	
Moisture Vapor Transmission (grains/hr/sq.ft)		N.av.	1.563
(after decay test)			
Flash Point		120°F (49°C)	150°F (66°C)
Recovery (percent)	ASTM D-412-98	98%	96%
Shelf Life		1 year	1 year
(when stored indoors in cool and dry location at 77°F (25°C) in unopened containers)			