



# ELASTO-DECK BT

## ELASTOMERIC MEMBRANE

### WATERPROOFING SYSTEM - COAL TAR FREE

## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION:

**PACIFIC POLYMERS® ELASTO-DECK BT** is a black, liquid applied single-component moisture-cured polyurethane waterproofing coating, designed to form a seamless, flexible rubber membrane impervious to moisture.

- **Type I:** For horizontal surfaces.
- **Type II:** For vertical surfaces.

**COMPOSITION:** Polyurethane elastomer

### 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°F to +175°F (-59°C to 79°C).

**ELASTO-DECK B.T.** waterproof membrane is intended for use wherever overflow water must be contained.

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

- Waterproofing in between concrete slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
- Waterproofing below grade exterior walls or foundations and basements or other structures that are to be backfilled.
- Waterproofing inside planter boxes.
- Waterproofing under terrazzo or tile floors.
- Waterproofing under shower pans, kitchen, laundry and bathroom floors.
- 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 potable 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, **Elasto-Poxy Primer VOC** must be used prior to installing the **Elasto-Deck B.T.** and the minimum application thickness is 90 mils (DFT).

Appropriate safety procedures must be followed when using this product in a confined space.

All materials shall be delivered to the jobsite in unopened containers clearly marked and labeled. Containers 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. Some substrates may require primer. (**ELASTO-POXY Primer VOC**) or **DECK-THANE Primer**)

- **Shelf Life:** 6 months at 77°F (25°C) when stored indoors in cool and dry location.
- **Color:** Black only.
- **Size:** 5-gallon pails
- **Standards:** A.S.T.M. C836/C836M

### WARNING 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.

### TYPICAL PROPERTIES (See Chart on Page 4)

#### APPROVALS:

Elasto-Deck B.T. is approved for waterproofing floors and walls below adjacent grade as required by City of Los Angeles (COLA) standards. Los Angeles Research Reports: RR 24350 (CSI #07140) plus RR-5271. Miami-Dade County Acceptance

#### 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 brush, roller, squeegee or trowel, without the need for heating the material.
4. May be applied over concrete, stone, cement blocks, wood, metal, 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 contraction with the substrate, without cracking or becoming brittle.
7. Does not contain any potentially hazardous coal tar.

#### LIMITATIONS:

- Do not apply to contaminated surfaces.
- Do not use as an exposed or wearing surface.
- Use with adequate ventilation.
- Not approved for direct contact with asphalt-based products.

- **ELASTO-DECK B.T.** is not UV stable, for best performance membrane needs to be protected from UV exposure within 14 days.

#### APPLICATION:

**ELASTO-DECK B.T.** is applied by roller, brush or squeegee.

- All cracks over 1/16" (1.6mm) in width must be filled and covered with a single or two component urethane sealant. This product may be applied by trowel or caulking gun.

**Note: Metal Surfaces** (flashings, drains etc...) prime with **Elasto-Poxy Primer VOC**.

- A minimum dry film thickness of 60 mils (1.5mm) is recommended over all surfaces. Porous substrates should be filled prior to coating and/or receive additional **ELASTO-DECK B.T.**
- **Some applications may require primer (Elasto-Poxy Primer VOC or Deck-Thane Primer).**
- **Some applications may require fabric reinforcement at penetrations or transitions (Tie-Text T272 Polyester Fabric or equal)**
- **ELASTO-DECK B.T.** 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).
- **For 60 mil applications ELASTO-DECK B.T.** is applied in two coats at 45 sq. ft. /gallon (0.96 m<sup>2</sup>/liter) per coat, allowing for an overnight cure (12-16 hours) between coats.
- **For 90 mil applications ELASTO-DECK B.T.** is applied in three coats at 45 sq. ft. /gallon (0.96 m<sup>2</sup>/liter) per coat, allowing for an overnight cure (12-16 hours) between coats.
- Protection course or drainage panel must be used prior to backfilling or pouring of the concrete topping slab.

#### PRODUCT WARRANTY:

INSTALL AS DIRECTED ON PACIFIC POLYMERS® PRODUCT DATA SHEET. USER DETERMINES SUITABILITY FOR INTENDED USE AND ASSUMES ALL RISK AND LIABILITY. THIS PRODUCT IS SOLD "AS IS." EXCEPT AS REQUIRED BY LAW, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF TERMS ARE NOT ACCEPTABLE, RETURN UNOPENED PRODUCT TO PLACE OF PURCHASE. DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THESE PRODUCTS.

Complete technical information is available from  
Holcim Solutions and Products US, LLC

#### AVAILABILITY AND COST:

**ELASTO-DECK B.T.** 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.

#### MAINTENANCE:

- If **ELASTO-DECK B.T.** is damaged, it can be repaired by cleaning the surface, priming with **Elasto-Poxy Primer VOC** and recoating with **ELASTO-DECK B.T.**

#### TECHNICAL SERVICE

Technical assistance can be obtained by contacting:

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

**TYPICAL PROPERTIES: ELASTO-DECK BT**

PROPERTY	TEST METHOD	ELASTO-DECK BT TYPE I	ELASTO-DECK BT TYPE II
Consistency		Thixotropic	Thixotropic
Shore "A" Hardness:	ASTM D-2240	40 ± 5A	35 ± 5A
Tensile Strength (psi) (N/sq.m)	ASTM D-412	300 ± 10 (2.1 N/m <sup>2</sup> )	436 ± 10 (3.0 N/m <sup>2</sup> )
Percent elongation	ASTM D-412	700 ± 10% min	700 ± 10% min
Adhesion to concrete	ASTM D-903-98	14.9 lb./in (2.79kg/cm) No peel /film break	19 lb./in (3.38kg/cm) No peel /film break
Hydrostatic Pressure Resistance	ASTN D 751-00		94 PSI (0.65 N/sq.m)
Resistance to Decay	ASTM D-154	No surface defects	No surface defects
Moisture Vapor Transmission (grains/hr./sq.ft)	ASTM E-96-00 (procedure B) water method	0.72	0.72
Water Vapor Transmission (grains /hr/sq.ft.)		N.av.	1.563
Weight per Gallon: Pounds Kilogram		10.10 ± 0.2 (4.5 ± 0.1kg)	9.1 ± 0.2 (4. ± 0.1kg)
Solid Content (%) Weight % Volume %	ASTM D-2369-98	91 ± 2 87 ± 2	91 ± 2 88 ± 2
Viscosity:	Brookfield Viscometer	40 ± 5	350 ± 50
V.O.C. (Minus exempt solvent) (Meets SCAQMD requirement)	Calculated	98 g/L	98 g/l
Tack-Free Time at 77°F (25°C) and 55% R.H.	---	12-16 hrs.	12-16 hrs.
Re-Coat Time at 77°F (25°) and 55% R.H.	---	16-24 hrs.	16-24 hrs.
Flash Point		120°F (49°C)	150°F (66°C)
Shelf Life	....	6 months	
Water Absorption (1 day @ 158°F + 3 days @ RT)	ASTM D 570	1.76%	1.76%
Crack bridging (1/8 inch)	ASTM C836	Pass	Pass
Low Temperature Flexibility (-10°C)	ASTM C836	Pass	Pass
Weight Loss %	ASTM C836	Pass	Pass
Temperature Service Range		-50° F to +180° F (-45°C to +82.2°C)	-50° F to +180° F (-45°C to +82.2°C)
Dimensional Stability/Water Absorption: [4-days immersion in water @ 50°C (122°F)]	CAN/CGSB-37-58-M86	4% change in volume dimension 2% change in mass	4% change in volume dimension 2% change in mass
Adhesion-in-Peel after water Immersion: [24 hour immersion in water @ 50°C (122°F)]	CAN/CGSB-37-58-M86	no peel away from concrete	no peel away from concrete
Crack bridging (10 cycles)	CAN/CGSB-37-58-M86	No evidence of cracking or splitting or adhesion loss	No evidence of cracking or splitting or adhesion loss
Low Temperature Flexibility (-20°C)	CAN/CGSB-37-58-M86	No cracking	No cracking
Water Tightness	CAN/CGSB-37-58-M86	No evidence of leakage	No evidence of leakage