



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 waterproofing coating, designed to form a seamless, flexible rubber membrane impervious to moisture.

Type I: For horizontal surfaces.

Type II: For vertical surfaces.

2. MANUFACTURER

ITW POLYMERS SEALANTS NORTH AMERICA

12271 Monarch Street
Garden Grove, CA 92841
Tel: 800-888-8340
Fax: 714-898-5687

3. PRODUCT DESCRIPTION

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 $+175^{\circ}\text{F}$ (-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.** Appropriate safety procedures must be followed when using this product in a confined space

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: 12 months at 77°F (25°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, 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.

ITW Polymers Sealants

North America

12271 Monarch Street, Garden Grove, CA 92841 714.898.0025 Fax: 714.898.5687

3/11/2013

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.

Color: Black only.

Size: 5 gallon pails

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) plus RR-5271

5. INSTALLATION

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 **SM7108**, a single component urethane sealant manufactured by **ITW POLYMERS SEALANTS NORTH AMERICA**. This product may be applied by trowel or caulking gun.

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

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.**

Some application may require primer.

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 m²/liter). Apply two coats at 45 sq. ft. /gallon (0.96 m²/liter) per coat are to be applied, allowing a 24 hour cure time between coats.

Protection course 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.

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 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, priming with **DECKTHANE Primer** or **Elasto-Poxy Primer VOC** and recoating it with **ELASTO-DECK B.T.**

9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available 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:

ITW POLYMERS SEALANTS NORTH AMERICA

12271 Monarch Street
Garden Grove, CA 92841
Tel: 1-800-888-8340
Fax: 714-898-5687

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		91 ± 2	91 ± 2
Volume		87 ± 2	88 ± 2
VOC Content (grams per liter minus exempt solvent) - Calculated		98 grams	98 grams
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)
Dimensional Stability/Water Absorption	CAN/CGSB-37-58-M86	4% change in volume dimension	
[4-days immersion in water @ 50°C (122°F)]		2% change in mass	
Adhesion-in-Peel after water Immersion	CAN/CGSB-37-58-M86	no peel away from concrete	
[24 hour immersion in water @ 50°C (122°F)]			
Crack bridging (10 cycles)	CAN/CGSB-37-58-M86	No evidence of cracking or splitting or adhesion loss	
Low Temperature Flexibility (-20°C)	CAN/CGSB-37-58-M86	no cracking	
Water Tightness	CAN/CGSB-37-58-M86	no evidence of leakage	