



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. Once cured, **ELASTO-DECK B.T.** allows expansion and contraction over a broad temperature range and maintains waterproofing properties under continuous exposure to water. Poured in place concrete, concrete masonry units, plywood and metal are acceptable substrates.

- Type 1: Horizontal Surfaces
- Type 2: Vertical Surfaces (may be used on 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.

BASIC USES for WATERPROOFING:

- Between concrete slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
- Below grade exterior walls or foundations and basements or other structures that are to be backfilled.
- Planter boxes and Green Roofs.
- Terrazzo or tile floors.
- Shower pans, kitchen, laundry and bathroom floors.
- Occupied areas under malls, plazas and promenades.

Water Tanks: **ELASTO-DECK B.T.** has been used successfully as a lining for emergency water storage tanks.

Non potable water: **ELASTO-DECK B.T.** bridges hairline cracks and allows movement with changes in temperature. The product fully bonds to the substrate keeping water from flowing underneath the lining. In continuously submerged applications, **Elasto-Poxy Primer VOC** must be used prior to installing the **Elasto-Deck B.T.** with a minimum application thickness of 90 mils (DFT). Appropriate safety procedures must be followed when using this product in a confined space.

SPECIFICATION COMPLIANCE:

PACIFIC POLYMERS® ELASTO-DECK BT meets or exceeds the test requirements of:

Waterproofing floors and walls below adjacent grade as required by 2017 Los Angeles City Building Code.
Research Report: RR-24350 (CSI #07140) plus RR-5271
NOA 13-0923.08 Miami Dade County, Florida
ASTM C836/ C836M-11A



TECHNICAL DATA:

Property	Typical Results
Color	Black
Consistency	Thixotropic
Temperature Service Range	-50°F – 180°F (-59°C – 82.2°C)
VOC Content	Type 1: 80 g/l EPA Method 24 Type 2: 67 g/l EPA Method 24
Tack-Free Time	12 - 16 hours
Re-Coat Time	16 - 24 hours
Weight Per Gallon	Type 1: 10.1 ± 0.2 lbs./ gal Type 2: 9.4 ± 0.2 lbs./ gal
Viscosity (Brookfield)	Type 1: 40 ± 5 poise Type 2: 350 ± 5 poise
Flashpoint	Type 1: 120°F (49°C) Type 2: 150°F (66°C)
Solids Content	91% by weight/ 87% by volume
Shore Hardness	Type 1: 40 ± 5A Type 2: 35 ± 5A
Tensile Strength	Type 1: 300 ± 10 psi Type 2: 436 ± 10 psi
Elongation (ASTM D412)	Type 1: 700% Type 2: 700%

** The shelf life for an unopened container stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 6 months from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall

APPLICATION:

- Apply **ELASTO-DECK B.T.** using a squeegee, roller or brush.
- All cracks over 1/16" (1.6mm) in width must be filled and covered with **PERMATHANE® SM7120 PU**, a single 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.**
- Application must be made uniformly to avoid thin spots and care must be taken to avoid pinholes, repair any that may occur.
- For coverage to obtain 60 dry mils is 22 sq. ft. /gallon (0.48 m²/liter), apply two coats at 45 sq. ft. /gallon (0.96 m²/liter) per coat.
- Allow for an overnight cure (16-24 hours) between coats.
- Protection course must be used prior to backfilling or pouring of the concrete topping slab.

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TECHNICAL DATA (cont.)

Property	Typical Results
Adhesion to Concrete (ASTM D903) Type 1 Type 2	No peel/ film break 14.9 lb./in (2.79kg/cm) 19.0 lb./in (3.38kg/cm)
Resistance to Decay (ASTM D154)	No surface defects
Water Vapor Transmission Type 1 Type 2	Not available 1.563 grains/hr/sq ft
Moisture Vapor Transmission (ASTM E96)	0.72 grain/hr/sq ft
Water Absorption (ASTM D570) (1 day @ 158°F + 3 days @ RT)	1.76%
Hydrostatic Pressure Resistance (ASTM D751)	Type 2 – 94 psi (0.65 N/sq.m)
Crack Bridging - 1/8" (ASTM C836)	Pass
Crack Bridging (10 cycles) (CAN/ CGSB-37-58-M86)	No evidence of cracking, splitting or adhesion loss
Low Temperature Flexibility (-10°C) (ASTM C836)	Pass
Low Temperature Flexibility (-20°C) (CAN/ CGSB-37-58-M86)	No cracking
Weight Loss % (ASTM C836)	Pass
Water Tightness (CAN/ CGSB-37-58-M86)	No evidence of leakage
Dimensional Stability – 4 days water immersion @ 50°C (122°F) (CAN/ CGSB-37-58-M86)	4% change in volume dimension/ 2% change in mass
Adhesion in Peel after water immersion (24 hr @50°C (122°F) (CAN/ CGSB-37-58-M86)	No peel from concrete

TEMPERATURE CONSTRAINTS:

- Minimum application temperature is 40°F (4°C) and rising and more than 5°F above dew point.
- Contact Technical Service when substrates are over 90°F (32°C) or under 40°F (4°C).
- Avoid application when inclement weather is present or imminent.
- Do not apply to damp, wet, or contaminated surfaces

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.
- 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**)

- Size: 5 gallon pails

CLEAN UP:

Equipment and tools should be cleaned immediately after use with acetone or other exempt solvent.

MAINTENANCE:

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

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.

TECHNICAL SERVICE

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.

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.

Complete technical information is available from
ITW Polymers Sealants North America, Inc.