



# ELASTO-DECK BT-DG

## Fluid Applied Elastomeric Waterproofing Membrane

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION:

**PACIFIC POLYMERS® ELASTO-DECK BT-DG** is a single component moisture cured, modified Polyurethane Waterproofing Membrane. It is VOC compliant, designed to form a seamless, flexible elastomer impervious to moisture penetration.

**ELASTO-BT DG** that can be applied to Green or Damp Concrete. **ELASTO-DECK BT-DG** is designed for both Vertical and Horizontal applications.

Standard: Meets ASTM C836/C836M specification.  
Miami Dade and LARR Approvals

#### USES and BENEFITS:

- Can be applied to damp concrete reducing project delays
- 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.

\*\* The shelf life for an unopened container stored out of direct sunlight in a cool, well-ventilated area is 6-months from the date of manufacture. Suggested storing temperature is between 60F (15.6C) and 80F (26.7C). Avoid storing container directly on the floor or against an outside wall

#### INSTALLATION:

##### SURFACE PREPARATION:

- Surface to be waterproofed must be clean and surface dry. Concrete slabs should have a light steel trowel followed by a fine hair broom or equivalent finish and should be water cured. Consult Architect or Engineer for minimum cure time on concrete before water cure can be stopped and foot traffic is permitted. Allow a minimum of 24 hours for concrete surface to dry after stopping water cure on decks or removing forms from walls.
- If release agents are present, they must be removed before the application of **ELASTO-DECK BT-DG**. Following good drainage practices, the structural slab should be sloped to drain a minimum of 1/8" (3.2mm) per running foot (30.5cm). All shrinkage cracks shall be treated with a 60 mil (1.5mm) coating of **ELASTO-DECK BT-DG**, six inches (15.3cm) wide centered over the crack. Moving structural cracks greater than 1/16" (1.6mm) can be routed out and caulked with **PERMATHANE®7120 PU** striped with bond breaker tape and coated with a 60 mil (1.5mm)

- detail coat of Membrane, or treated with fabric embedded in membrane, centered over the crack.
- **Should a primer be desired/required, use Elasto-Poxy Primer (VOC) and/or Deckthane Primer.**
- At all horizontal-vertical junctures and all projections, a 3/8"-1/2" inch (.95-1.27cm) cant of **PERMATHANE® SM7120 PU**, a single component moisture cured polyurethane sealant manufactured by **HOLCIM SOLUTIONS AND PRODUCTS US, LLC**. shall be installed. Integral flashing shall be installed to the height indicated on the drawings. At expansion joints and other areas of potential high movement, fabric embedded into the membrane will be required.
- All detailing must be cured a minimum of 12 hours prior to the application of the membrane. Detailing should be wiped clean with Acetone prior to the application of the membrane. In some states, use of non-VOC compliant solvents shall be limited.
- **Metal/Metal Flashing:** (Flashings, drains etc.) Prime with **Elasto-Poxy Primer VOC**.

#### TYPICAL PROPERTIES: (See chart s on page 3)

Elasto-Deck BT-DG is approved for waterproofing floors and walls below adjacent grade. Elasto Deck BT-DG has Miami Dade NOA and City of Los Angeles approvals.

#### APPLICATION:

- **ELASTO-DECK BT-DG** is applied by roller, brush, or squeegee.
- A **minimum** dry film thickness of 60 mils (1.5mm) is recommended over all surfaces. Extremely porous substrates should be filled prior to coating or receive additional **ELASTO-DECK BT-DG**.
- **ELASTO-DECK BT-DG (60 mil minimum DFT)** Application must be made uniformly to avoid thin spots and care must be taken to avoid pinholes and repair them should they occur.
- Apply two coats at 45 sq. ft. /gallon (0.96 m<sup>2</sup>/liter) per coat, allowing for an overnight cure (16-24 hours) between coats. A protection course must be used prior to backfilling or pouring of the concrete topping slab.
- **ELASTO-DECK BT-DG (90 mil minimum DFT)** 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). Apply three coats at 45 sq. ft. /gallon (0.96 m<sup>2</sup>/liter) per coat, allowing for an overnight cure (16-24 hours) between coats. A protection course must be used prior to backfilling or pouring of the concrete topping slab.
- **\*WATER TANKS: ELASTO-DECK BT-DG** has been used as a lining for emergency water storage tanks. (Non-potable water only). The **ELASTO- DECK BT-DG** 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 BT-DG** and the minimum application thickness is 90 mils (DFT).

#### 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 contaminated surfaces.

#### MAINTENANCE:

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

#### LIMITATIONS:

- Do not apply to contaminated surfaces.
- Not to be used as an exposed or wearing surface.
- Use with adequate ventilation.
- **Do not use curing compounds to cure concrete**
- Concrete forms must be removed for a minimum of 24 hours before **ELASTO-DECK BT-DG** can be applied.
- Bond Breakers and Form Releases must be removed.
- 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**)

#### 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.

#### CLEAN UP:

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

#### AVAILABILITY AND COST:

- **ELASTO-DECK BT-DG** 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.

**PACKAGING:** 5-gallon pails

#### TECHNICAL SERVICE

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.

PRIOR TO USE OF THIS MATERIAL,  
READ ALL APPROPRIATE SAFETY DATA SHEETS

**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.

**TYPICAL PROPERTIES:**

| Property                       | Typical Results                    | Test Method           |
|--------------------------------|------------------------------------|-----------------------|
| Consistency                    | Thixotropic                        | Visual Observation    |
| Color                          | Black                              |                       |
| Weight Per Gallon              | 7.8 +/- 0.2                        | Density Cup           |
| Solid Content (%)              |                                    |                       |
| Weight                         | 92 +/- 2                           | ASTM D2369            |
| Volume                         | 90 +/- 2                           |                       |
| VOC Content (g/l)              | 75                                 | EPA Method 24         |
| Viscosity (cps)                | 250 – 450                          | Brookfield Viscometer |
| Recoat Time (@77F; 50% R.H.)   | 16 – 24 hrs                        |                       |
| Hardness (Shore A Durometer)   | 35 +/- 5                           | ASTM D2240            |
| Tensile Strength (psi)         | 250 +/- 50                         | ASTM D412             |
| Elongation @ Break (%)         | 500 +/- 50                         | ASTM D412             |
| Flash Point (F)                | 120F                               | Pensky Martens CC     |
| Water Absorption (7 days @ RT) | 1.76%                              | ASTM D471             |
| Perm Rating                    |                                    | ASTM D1653            |
| Temperature Service Range      | -50°F - 180° F<br>(-45°C - 82.2°C) |                       |

**ASTM C836/C836M**

| Physical Properties            | Requirement | Test Results | Test Method |
|--------------------------------|-------------|--------------|-------------|
| Hardness (Shore OO)            | ≥ 50        | 80 +/- 2     | ASTM D2240  |
| Weight Loss (%)                | ≤ 20        | 84           | ASTM C1250  |
| Low Temperature Crack Bridging | No Cracking | Pass         | ASTM C1305  |
| Adhesion -in-Peel (wet) (lbf)  | ≥ 1         | Pass         | ASTM C794   |
| Extensibility after Heat Aging | No Cracking | Pass         | ASTM C1522  |