



# ELASTO-MAT D&G

## Fluid Applied Elastomeric Waterproofing Membrane For “Damp and Green” Concrete

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION:

**PACIFIC POLYMERS® ELASTO-MAT D & G** is a VOC compliant, modified polyurethane waterproofing membrane that can be applied to Green or Damp Concrete. **ELASTO-MAT D & G** is a one-part moisture curing elastomer available in a single grade for Vertical and Horizontal application.

#### BASIC USES:

**ELASTO-MAT D & G** is commonly used as a between slab on plaza decks, parking decks, roof terraces, podiums. **ELASTO-MAT D & G** is also used for waterproofing foundation walls, landscaped areas, planter boxes, tunnels, etc. The **ELASTO-MAT D & G** is an effective membrane for use on concrete, wood, and other masonry surfaces. In some cases, a primer may be required.

#### TYPICAL PROPERTIES:

PROPERTY	TYPICAL RESULTS
Consistency	Thixotropic
Color	Black
Shore “A” Hardness (ASTM D2240)	35 ± 5A
Tensile Strength (ASTM D412)	300 psi (1.462 N/m <sup>2</sup> )
Elongation (ASTM D412)	500%
Adhesion to Concrete (ASTM D903)	21.82 lb./in (3.895kg/cm)
Moisture Vapor Transmission (ASTM E96, procedure B)	0.72 grains/hr/ft <sup>2</sup>
Weight per Gallon:	7.92lbs/ gal
Solid Content (ASTM D2369)	
Weight %	92% ± 2
Volume %	90% ± 2
Viscosity:	250-450 poise
V.O.C.	70 g/L, EPA Method 24
Tack-Free Time at 77°F (25°C) and 55% R.H.	12-16 hrs.
Re-Coat Time at 77°F (25°) and 55% R.H.	16-24 hrs.
Flashpoint	120°F (49°C)
Water Absorption (1 day @ 158°F + 3 days @ RT) (ASTM D570)	1.76%
Crack bridging (1/8 inch) (ASTM C836)	Pass
Low Temperature Flexibility (-10°C) (ASTM C836)	Pass
Weight Loss % (ASTM C836)	<15%
Temperature Service Range	-50°F - 180°F (-45°C - 82.2°C)
** 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	

#### 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-MAT D & G**. Following good drainage practice, 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-MAT D & G**, 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®7108** 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).**
- At all horizontal-vertical junctures and all projections, a 3/8”-1/2” inch (.95-1.27cm) cant of **PERMATHANE® SM7108**, a single component moisture cured polyurethane sealant manufactured by **ITW POLYMERS SEALANTS NORTH AMERICA, INC.** 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.**

##### APPLICATION:

- **ELASTO-MAT D&G** 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-MAT D & G.**
- **ELASTO-MAT D & G (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-MAT D&G (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.

#### 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.

#### MAINTENANCE:

- If **ELASTO-MAT D&G** is damaged, it can be repaired by cleaning the surface, priming with **DECKTHANE Primer** and recoating with **ELASTO-MAT D&G**.

#### 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-MAT D&G** 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-MAT D&G** 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 [www.itwsealants.com](http://www.itwsealants.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.