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# **PACIFIC POLYMERS** **ELASTO-MAT D & G**

## **Single Component, Rapid Curing, Fluid Applied Elastomeric Waterproofing Membrane for “Damp and Green” Concrete**

### **1. PRODUCT NAME**

**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 two grades (Self-Leveling (SL) and Vertical (V)). For more details contact a ER SYSTEMS representative. Both grades are suitable for horizontal applications.

### **2. MANUFACTURER**

ER SYSTEMS (An ITW Company)  
12271 Monarch Street  
Garden Grove, CA 92841  
Tel: 1-800-888-8340  
Fax: 714-898-5687

### **3. PRODUCT DESCRIPTION**

**Basic Uses:** **ELASTO-MAT D & G** is a fluid-applied, elastomeric waterproofing membrane that can be applied to “Green” concrete just a few days old. **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.

#### **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.

**Color:** Black

**Sizes:** 5 gallon pails

**Standards:** Made to conform to ASTM. C836 specification.

#### **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. **KEEP AWAY FROM CHILDREN.**

### **4. TECHNICAL DATA**

(See chart on Page 3)

### **5. INSTALLATION**

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 VERTICAL

Grade 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).** Consult your local ER SYSTEMS technical representative for further information.

At all horizontal-vertical junctures and all projections, a one inch (2.54cm) cant of **ELASTO-MAT D & G V** grade 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. Consult your local ER SYSTEMS Representative or Distributor for specific design details.

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.

## APPLICATION

**#1. ELASTO-MAT D & G** shall be spray, roller, squeegee or trowel applied at the rate of two gallons per 100 square feet (.82 liter per square meter) to provide a thickness of 30 mils (1.5mm). After a 24 hour cure, apply another coat at the rate of two gallons per 100 sq.ft. @ 30 mils, to provide a thickness of 60 mils, total system thickness.

**#2. ELASTO-MAT D & G** shall be spray, roller, squeegee or trowel applied at the rate of 2.78 gallons per 100 sq.ft. per coat to provide a thickness of 45 mils per coat. After a 24 hour cure, apply another coat at the rate of 2.78 gallons per 100 sq.ft. @ 45 mils, to provide a thickness of 90 mils, total system thickness.

**#3. ELASTO-MAT D & G** shall be spray, roller, squeegee or trowel applied at the rate of four gallons per 100 sq.ft. per coat to provide a thickness of 60 mils per coat. After a 24 hour cure, apply another coat at the rate of four gallons per 100 sq.ft. @ 60 mils, to provide a thickness of 120 mils, total system thickness.

A Flood Test should be run; the membrane should be cured to a firm rubber set (48 hour minimum) before flooding. Flood with a minimum of one inch (2.54cm) of water for 24 hours.

Allow ELASTO-MAT D & G to completely cure before a protection course of PB4 and/or drainage mat can be applied. Consult manufacturer for warranty.

## 6. 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.

## 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 users 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 accept damage in excess of the purchase price of these products.

## 8. MAINTENANCE

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

## 9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available at [www.pacpoly.com](http://www.pacpoly.com). Since product data and specifications change, it is the users responsibility to make certain the most current versions of product data and specifications are being used.

Technical assistance can be obtained by contacting:

ER SYSTEMS (An ITW Company)  
12271 Monarch Street  
Garden Grove, CA 92841  
Tel: 1-800-888-8340  
Fax: 714-898-5687

**4. TECHNICAL DATA – ELASTO-MAT D & G**

Property	Test Method	Results	
		<u>Vertical</u>	<u>Self-Leveling</u>
Consistency		thixotropic	Self Leveling
Viscosity (@ 75°F)	Brookfield Viscometer (Spindle #7, 20 rpm)	300- 400 poise	100 poise min.
Weight Per Gallon	ASTM D1475	7.61 pounds	9.76 pounds
Percent Solid Content	ASTM D-2369		
Weight		92 +/- 2%	98 – 100 %
Volume		90 +/- 2%	98 – 100%
VOC Content (grams per liter)		85	solvent free
Tensile Strength	ASTM D412	212 psi min.	300 psi min.
Elongation at Break	ASTM D412	500% min.	700% min
Tear Strength (Die C)	ASTM D 624	50 lb/in	50 lb/in
Water Absorption (1 day @ 158°F + 3 days @ RT)	ASTM D 570	1.76%	1.55%
Hardness (Shore A)	ASTM D 2240	35 +/- 5A	35 +/- 5A
Low Temperature Flexibility (-10°C)	ASTM C836	Pass	Pass
Crack Bridging (1/8inch)	ASTM C836	Pass	Pass
Weight Loss (%)	ASTM C836	< 15%	< 10%

English Coverage Rates		Metric Coverage Rates		
Wet Mil Thickness	Square Ft./Gal.	Wet Millimeters	M <sup>2</sup> /Litre	M <sup>2</sup> /U.S. Gal.
215	7.5	5.5	0.19	0.70
120	13	3.0	0.32	1.21
90	18	2.3	0.44	1.67
60	25	1.5	0.66	2.51
30	53	0.8	1.30	4.93