



## PACIFIC POLYMERS

# ELASTO-DECK 5000 M.R.

## POLYURETHANE COATING FOR MECHANICAL EQUIPMENT ROOM FLOORS

### 1. PRODUCT NAME

#### **ELASTO-DECK 5000 M.R.**

**ELASTO-DECK 5000 M.R.** is an elastomeric coating system which provides a waterproof, foot traffic bearing deck coating, based on polyurethane elastomers.

### 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

**Composition:** Liquid-applied, single-component, moisture-cured, polyurethane deck covering system. All materials shall be delivered to the jobsite in unopened containers clearly marked and labeled. System consists of **ELASTO-DECK 5001** Non-Gassing base coat, **ELASTO-GLAZE 6001 AR** top coat, a primer where necessary and an aggregate, if desired for slip resistance.

**Basic Uses:** **ELASTO-DECK 5000 MR** system provides a waterproof, elastomeric, traffic bearing deck coating. It is a monolithic system that incorporates excellent adhesion, flexibility, impact, abrasion resistance, and chemical resistance. Physical stresses imposed by vibration of equipment will not cause delamination or rupture of the coating. The elastic properties of all system components enable the complete system to give and work with all but the most unusual movement of the floor or deck.

**Limitations:** 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, and primed with **DECK-THANE PRIMER** or **Elasto-Poxy Primer (VOC or W.B.)**, where necessary.

The finished coating system should not be subjected to direct heat radiation over 250°F (121°C) from burners, open flames or pipes. Baffles or heat shields should be installed, by others, where necessary.

**Colors:** Concrete Grey

**Sizes:** Available in 5-gallon pails and 55-gallon drums.

**Standards:** Complies with A.S.T.M. C-957-87

#### **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 chart on Page 3)

### 5. INSTALLATION

**Surface Preparation:** All surfaces which are to receive **ELASTO-DECK 5000 M.R.** system shall be free of contamination such as water, curing compounds, hardeners, bond-breakers, paint, etc. A light broom-finish is recommended for concrete surfaces. It is desirable to watercure concrete in lieu of using curing compounds. Contaminants should be removed by sandblasting or acid-etching. If etching is used, allow adequate time for surface to dry. Except for non-moving shrinkage cracks, all other cracks and joints must be sealed with **ELASTO-THANE 230MP**, a single-component, moisture-cured sealant manufactured by ER SYSTEMS. All surfaces must be primed with **DECK-THANE PRIMER** or **Elasto-Poxy Primer (VOC or W.B.)** prior to application of the coating system.

**Metal Flashing:** Metal flashing should be primed with **(ICAP) Inter-Coat Adhesion Primer.**

**Application: ELASTO-DECK 5001** Non-Gassing shall be applied to the primed surface at a rate of 46 square feet per gallon (1.0-1.1 m<sup>2</sup>/liter) resulting in a 30 dry mil (.76mm) thickness.

After a minimum cure time of 24 hours, **ELASTO-GLAZE 6001 AR** shall be applied at the rate of 115 feet per gallon (3.0 m<sup>2</sup>/liter), resulting in a 10 dry mil (.25mm) thickness. The aggregate (No. 20 mesh) is broadcast into the **ELASTO-GLAZE 6001 AR**

membrane at the desired rate, and backrolled, if any slip resistance is needed.

The completed coating system shall not be subject to any pedestrian traffic during the first 24 hours after the application has been completed, nor to any heavy traffic of pedestrians during the first four days after application.

## 6. AVAILABILITY AND COST

**ELASTO-DECK 5000 M.R.** is supplied through building material dealers. Prices vary with quantity and packaging. Quotations are made upon request.

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

## 8. MAINTENANCE

Since, as with all deck coatings, the topcoat is subject to staining by such foreign matter as nitrates, fertilizers, hard water, and other substances, it must be maintained. Please refer to the Maintenance Manual for proper maintenance procedures. The manufacturer is not liable for staining caused by hard water deposits, nitrates, fertilizers and other foreign matter.

If **ELASTO-DECK 5000 M.R.** is damaged, it can be repaired by cleaning the surface with Acetone and recoating it with **ELASTO-DECK 5000 M.R.** system.

## 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 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:

ER SYSTEMS (An ITW Company)  
12271 Monarch Street  
Garden Grove, CA 92841  
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## 4. TECHNICAL DATA – ELASTO-DECK 5000 M.R.

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>RESULTS</u>	
		<u>Elasto-Deck 5001NG</u>	<u>Elasto-Glaze 6001AR</u>
Viscosity (@77°F (25°C))	Brookfield Viscometer	60 ± 10 poise	35 ± 5 poise
Weight Per Gallon (pounds)		9.65 +/- 0.10	9.95 +/- 0.10
Solid Content (%)	ASTM D 2369		
Weight %		91 ± 2	74 ± 2
Volume %		88 ± 2	73 ± 2
VOC Content (grams per liter) (minus exempt solvent)		100 grams	100 grams
Hardness (Durometer)	ASTM D 2240	50A – 55A	90A (40D)
Tensile Strength (psi)	ASTM D 412	430 ± 10%	2000 ± 10%
Elongation (%)	ASTM D 412	700 ± 10%	200 ± 10%
Peel Strength on Plywood	ASTM D 903	14 pli (no peel Cohesive failure)	N/A
Water Absorption	ASTM D570	< 3.5 %	< 1.52%
Moisture Vapor Transmission	ASTM E 96	1.5 +/- 0.4 perms	N/A
Tear Strength (lb/in)	ASTM D 624	58	280 +/- 10%
Bond Strength (Elcometer Pull Test)	ASTM D4541		
Plywood		> 185 psi	N/A
Primed Concrete		> 300 psi	
Taber Abrasion (CS17 wheel) 1000gram load, 1000 cycles	ASTM D4060	N/A	0.051 gr. loss
Shelf Life (unopened Containers @ 77°F/50% RH)		6-months	6-months
Weather-o-Meter	ASTM D1499	N/A	2000 hours No cracking or Softening / discolors and chalks
Chemical Resistance (Elasto-Glaze 6001AR)	ASTM D 2299	N/A	No cracks, spalls, softening  [Industrial Detergent Solution (20% Vol.) Ammonia Solution (5% by Vol.) Salt Solution (20% by Vol.) Muriatic Acid (10% by Vol.) Chlorine Solution (10% by Vol.) Ethylene Glycol Anti-Freeze Kerosene Turpentine Paint Thinner ]
Temperature Service Range		-50° F to +180° F (-45°C to +82.2°C)	

