



PACIFIC POLYMERS

ELASTO-DECK 5500

ELASTOMERIC POLYURETHANE FOR WATERPROOFING

UNDER TILES SET IN THIN-SET MORTAR

1. PRODUCT NAME

ELASTO-DECK 5500

ELASTO-DECK 5500 is a liquid-applied, single-component, moisture-cured polyurethane membrane.

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 elastomer.

Basic Uses: **ELASTO-DECK 5500** is widely used to waterproof concrete and plywood decks which are subsequently covered with outdoor carpeting, tile (over concrete or mortar float). The product is also recommended for all applications where a petroleum hydrocarbon extended polyurethane would not be suitable.

May be used under thin-set mortar or mortar bed tile installations.

Limitations: 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 and primed with **ELASTO-POXY PRIMER (VOC or W.B.)**, where necessary.

Colors: Concrete Grey.

Sizes: Available in 5-gallon pails

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 reverse side)

5. INSTALLATION

Surface Preparation: All surfaces which are to be waterproofed with **ELASTO-DECK 5500** must be free of contamination such as curing compounds, concrete hardeners, bond breakers, paints, etc. All surfaces must be dry, having a maximum water content of 20%. We recommend water-curing concrete instead of using concrete curing compounds. Only exterior grade plywood (5/8" (1.59 mm) minimum thickness, 3/4" or thicker preferred) should be used. Concrete should be cleaned by sandblasting or acid-etching. After acid etching, allow a minimum drying time of 72 hours. 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 SYSTEM. All surfaces, where necessary, must be primed with **ELASTO-POXY PRIMER (VOC or W.B.)** prior to application of the coating system at a rate of 250-300 square feet per gallon (7.35-8.58 m²/liter), except for plywood in good condition.

All seams between plywood sheets, and those between metal flashing and the plywood deck, must be reinforced by embedding a 4 inch (10 cm) wide strip of glass cloth tape into wet **ELASTO-DECK 5500**, which is brushed evenly over the seam to a width of about 5 inches (12.7 cm) and a thickness of about 10 wet mils.

The application of **ELASTO-DECK 5500** can subsequently be made immediately over the entire area, including the taped areas. Cracks in concrete must be treated in the same way. Where **ELASTO-DECK 5500** is used as a protective coating on polyurethane foam roofs, it must be applied within 8 hours from the time the foam is installed. **ELASTO-GLAZE 6001 AL** must be applied over the **ELASTO-DECK 5500** where exposed to direct sunlight.

Application: **ELASTO-DECK 5500** shall be applied at a rate of 45 square feet per gallon (1.1 m²/liter) per coat resulting in a 30 dry mil thickness. Most applications require two coats at this coverage, allowing a 24 hour cure time between coats. A third coat of **Elasto-Deck 5500** must be applied at approximately 100 square feet per gallon; immediately broadcast an aggregate into the wet third coat to promote adhesion between the thinset and the coating system. Aggregate must be broadcast to refusal. Then the excess swept off prior to application of thin set (mortar).

ELASTO-DECK 5500 is applied by knotted squeegee followed by back roll. **ELASTO-DECK 5500** can be sprayed. Airless spray equipment must have a minimum of 30 to 1 ratio.

Permit a 48 hour cure time after the final coat is applied before continuing with tile setting, carpet laying, or any other operations.

6. AVAILABILITY AND COST

ELASTO-DECK 5500 is supplied through building material dealers. Prices vary with quantity and packaging. Quotations are made on 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 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-DECK 5500** is damaged, it can be repaired by cleaning the surface with an exempt solvent (Acetone as an example) and recoating it with **ELASTO-DECK 5500**.

9. TECHNICAL SERVICES

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 users responsibility to make certain the most current versions of product data and specifications are being used.

Technical assistance can be obtained by contacting:

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4. TECHNICAL DATA – ELASTO-DECK 5500

Property	Measuring Standard and Conditions	Results
Hardness (Shore "A" Durometer)	A.S.T.M. D-2240	75 +/- 5A
Tensile Strength (psi)	A.S.T.M. D-412	1000 +/- 10%
Elongation (%)	A.S.T.M. D-412	200
Tear Resistance (Die C)	A.S.T.M. D-624	72 lb/in
Adhesive Peel Strength on Primed Concrete	A.S.T.M. D-794	32 pli cohesive failure
Peel Strength on Plywood	A.S.T.M. D-794	35 pli cohesive failure
Solids Content	calculated	82 +/- 2%% by weight 80 +/- 2% by volume
Water Absorption (24 hr @ 120 ⁰ F)	A.S.T.M. D-570	2.85 % by weight
Temperature Service Range		-50° F to +200° F -45°C to +93°C
Viscosity at 77°F (25°C)	Brookfield	50 ± 10 poises
Moisture Vapor Transmission	A.S.T.M. E96	1.8 perms +/- 0.4
Abrasion Resistance (CS-17 wheel, 1000 cycles, 1000 gram weight)	A.S.T.M. D-4060 (Taber Abrasion)	0.16% weight loss
Bond-strength (Plywood)	ASTM D4541	134 psi plywood failure
Volatile Organic Compound minus exempt solvent Supplied		100 gram per liter < 225 gram per liter
Weight Per Gallon		10.15 lbs