

ELASTO-DECK 5000 HT

Waterproofing Polyurethane
Traffic Coating System

ADVANTAGES

- Waterproof
- Elastomeric
- Seamless

APPLICATIONS

- Waterproofing for Vehicular Traffic

PRODUCT DESCRIPTION

Composition: Liquid-applied, single component, moisture-cured, polyurethane deck covering system.

System consists of **ELASTO-DECK 5001HT BASE COAT** and **INTERMEDIATE COAT**, and **ELASTO-GLAZE 6001AL-HT TOP COAT**, and a primer, where necessary. **ELASTO-DECK 5000 HT** system is available in concrete grey.

Basic Uses: For waterproofing parking decks and concrete roof decks. **ELASTO-DECK 5000 HT** can be used on all decks where a skid-resistant, long lasting, wear-resistant surface is

required. It may be used on new decks as well as on existing concrete decks which are damaged or cracked. The system is suitable for exterior, as well as interior applications in all kinds of climates. The coating retains its elastomeric properties in below freezing weather, as well as in very hot climates.

Limitations: All materials shall be delivered to the job site 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. The material will cure when exposed to air. All surfaces must be completely free of foreign matter and primed, where necessary.

MATERIALS

Recommended materials and their uses are as follows:

PERMATHANE® SM7108 is a one part, self-leveling or gun grade, non-staining, polyurethane sealant which cures at ambient temperature to a firm, flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

ELASTO-POXY PRIMER. A two-component, solvent based epoxy primer for use on concrete or metal surfaces.

ELASTO-DECK 5001 HT Coating. A one-part, self-leveling, polyurethane coating used as the elastomeric waterproof membrane of the system, and also to lock in the aggregate.

ELASTO-GLAZE 6001AL-HT Coating A one-part, moisture-cured, aliphatic polyurethane topcoat which protects the **ELASTO-DECK 5000 HT** from U.V exposure.

AGGREGATE: 20 mesh Monterey sand or equal, which imparts the slip resistant texture and contributes to wear resistance.

INSTALLATION

- Thoroughly clean all surfaces to receive coating materials in strict compliance with Manufacturer's written instructions and recommendations. Remove oil and grease with a commercial grade alkaline cleaner; thoroughly rinse and dry. Prepare all concrete surfaces by sandblasting, shot-blasting, or acid etching with a 10-15% solution of muriatic acid. Flush all acid with clean water and allow to dry.
- Rout or saw-cut all cracks exceeding 1/16" (.16cm) in width and caulk with **PERMATHANE® SM7108** or **ELASTO-THANE 227/227R**.
- Caulk all expansion, control and construction joints to be over-coated by deck coating with **PERMATHANE® SM7108**.
- Protect adjacent surfaces with drop cloths or masking as required.

FLASHINGS

- Provide fluid applied flashings at all locations where a horizontal surface abuts a vertical surface and at all deck penetration as specified.
- At projections through deck coatings such as posts, vents, pipes, stanchions, railings and similar locations of potential slight movement, provide a 1/4" (0.64 cm) bead of **PERMATHANE® SM7108**. Tool sealant to form a cove and allow to cure before over-coating.

PRIMER AND DETAIL WORK

- Primer:** Prime all concrete, masonry and metal surfaces. Apply primers at coating Manufacturer's recommended rate. Allow for a minimum two hour cure but shall not be applied more than 8 hours preceding application of deck coating. **ELASTO-POXY**



ELASTO-DECK 5000 HT can be applied by spray, brush, or roller.

ELASTO-DECK 5000 HT



PRIMER shall be applied at the rate of 225-250 sq. per gallon. Mix only enough for use over a 2 hour period (max.). Install deck coating base coat on the same day.

- B. Apply 25 mil (0.63 mm) dry film thickness of base coat material over all flashings (sheet flashings, sealant coves and rigid corners). Extend coating 2" (5.08 cm) beyond flashing out onto adjacent deck surface. Unless otherwise indicated on Drawings or where limited by height of base, extend coating a minimum of 1" (2.54 cm) above the top of the flashing and terminate in a neat straight line. Use masking tape for such purpose.
- C. Apply 25 mil (0.63 mm) dry film thickness of base coat material over and for a distance of 1-1/2" (3.8 cm) on each side of all cracks. Do not permit coating to extend over any joints larger than 1" (2.54 cm) nominal width and/or any joints which may move in excess of 25% of nominal dimension. This requirement shall apply to detail coatings as well as deck coatings.
- D. Apply 25 mil (0.63) dry film thickness of base coat material over and for a distance of 2" (5.08 cm) on each side of all expansion joints, control joints and construction joints to be coated.

APPLICATION:

A. Medium and heavy duty decks.

Step (1) ELASTO-DECK 5001 HT shall be applied to the primed concrete at a rate of 64 square feet per gallon (1.57m²/liter) resulting in a film thickness of 25 mils (.63 cm). Application must be made uniformly to avoid thin spots and care must be taken to avoid pinholes and repair them should they occur

Step (2) Following an overnight cure, apply **ELASTO-DECK 5001 HT** at a rate of 100 square feet per gallon (2.45m²/liter) for a thickness of 16 mils (0.4 mm). It is preferable to use a heavy duty roller for even distribution.

Step (3) Immediately broadcast 1 gallon (3.785 liters) of 20 mesh Monterey sand, or equivalent, uniformly into the wet coating, per 100 sq. (2.45 m²/liter). Assure that the coating is back-rolled for even distribution of the sand. Do not broadcast to refusal. Allow to cure overnight.

Step (4) Turn radius and ramps .Repeat Steps 2 and 3. Allow an overnight cure of **ELASTO-DECK 5001 HT**.

Step (5) Apply **ELASTO-GLAZE 6001AL-HT** by roller, brush or spray at 140-150 sq. per gallon (3.68 m²/liter) to equal 10 mils (0.25mm). Allow 72 hours for complete

cure of the system. Top coat must be the same color as the preceding sand coat. *For heavy-duty traffic areas.

B. Light duty pedestrian decks.

Step (1) As under A. Allow an overnight cure

Step (2) Apply **ELASTO-GLAZE 6001AL-HT** at 100 square feet per gallon (2.45 m²/liter) or 16 (0.4mm) wet mils. Immediately broadcast 1 gallon of 20 mesh Monterey sand, or equivalent, uniformly into the wet coating, per 100 sq. ft. (9.29 m²). Assure that the coating is back-rolled for even distribution of the sand. Allow an overnight cure before permitting light traffic.

AVAILABILITY AND COST

ELASTO-DECK 5000 HT 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.

PRODUCT WARRANTY

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.

MAINTENANCE

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

TECHNICAL SERVICES

Technical assistance can be obtained by contacting:

ITW POLYMERS SEALANTS NORTH AMERICA
12271 Monarch St, Garden Grove, CA 92841
TEL: (714) 898-0025
FAX (714) 898-5687

TECHNICAL DATA			
PROPERTY	MEASURING STANDARDS AND CONDITIONS	ELASTO-DECK 5001 HT BASE COAT & INT. COAT	ELASTO-GLAZE 6001AL-HT TOP COAT
Shore "A" Hardness	ASTM D-2240	75A ± 5A	95A ± 5A
Ultimate Tensile Strength	ASTM D-412	1500 psi + 10%	2,780 psi + 10%
Ultimate Elongation	ASTM D-412	400% + 10%	200% + 10%
Adhesive Peel Strength on concrete	ASTM D-903	150 P.L.I. + 10%	N/A
Peel Strength on Plywood	ASTM D-903	30 P.L.I. + 10%	N/A
Crack Bridging	ASTM C-836	System Passes	System Passes
Abrasion Resistance	ASTM C-501-62T30 mil DFT on 4" x 4" metal CS17 wheel, 1000 rev, 1000 g weight	N/A	0.029
Tear Resistance	ASTM D-624	260 P.L.I. + 10% (45.50 n/mm)	520 P.L.I. + 10% (91 n/mm)
Weatherometer	ASTM D-1499 & G23	1,000 hours, Slight Chalking	2,000 hours, No Change
Weight per Gallon		10.8 lbs. (4.83 kg)	9.45 lbs. (4.26 kg)
Specific Gravity		1.30	1.20
Viscosity	Brookfield	50 + 10 poises	25 + 5 poises
Flash Point		120F (49C)	120F (49C)
Resistance to Gasoline		Slight Swelling	Slight Swelling
Resistance to Diesel Fuel		Slight Swelling	No Effect
Resistance to Anti-Freeze		No Effect	No Effect
Resistance to Motor Oil		No Effect	No Effect
Resistance to Water		No Effect	No Effect
V.O.C.		100 gr./litre	100 gr./litre