



ENDURO-THANE P Pedestrian Deck Coating

1. Description:

EP - ENDURO-THANE P Pedestrian Deck Coating is an attractive, elastomeric, skid and abrasion resistant, fluid applied coating system for waterproofing pedestrian decks. This durable system has excellent adhesion, crack bridging capabilities and tensile strength. The EP - ENDURO-THANE P Pedestrian Deck Coating system consists of a two part epoxy primer with a single component polyurethane base coat, intermediate coat and top coat. An acrylic top coat is also available.

2. Uses:

EP - ENDURO-THANE P Pedestrian Deck Coating system is designed for use on new or existing above grade structural concrete or plywood surfaces to withstand light to heavy pedestrian traffic.

3. Surface Preparation:

3.1 Concrete: All concrete surfaces to receive the EP - ENDURO-THANE P Pedestrian Deck Coating system should be of sound structural grade. Metal pans should be vented when used to form new concrete slabs. Concrete installed over precast "T's" should have control joints installed over coinciding joints or openings in the precast. New concrete should be cured by the water curing method for at least 28 days. The cured concrete should be sloped to the drains. A light broom finish is recommended that is free of cracks, voids, fins, ridges, or other imperfections. All contaminants and imperfections that may impair adhesion must be removed from new and existing concrete. They should be removed by sandblasting, shotblasting or mechanical grinding. The concrete should be thoroughly cleaned by using a commercial pressure washer. Imperfections should be repaired with manufacturer approved materials. All cracks over 1/16 inch in width and all moving cracks less than 1/16 inch in width should be saw cut to 1/4 inch wide by 1/2 inch deep. Completely clean all saw cut cracks, expansion joints and control joints. Install backer rod and fill flush with polyurethane sealant. Allow to cure overnight. A detail coat of EN-75 Base Coat should be applied over all sealed cracks, hairline cracks, expansion joints and control joints that are under 1/2 inch in width. All protrusions and changes of plane should be detailed with the EN-75 Base Coat. Allow to cure overnight. Be aware that drying time depends on temperatures and humidity.

3.2 Plywood: All plywood surfaces should be selected and installed in accordance with the requirements of the applicable building code.

Plywood shall be a minimum of 5/8 inch thick tongue and groove exterior grade and have joints blocked and fastened. Plywood should be fastened with non-corroding screws, twist shank nails or 10d annular ring nails. Plywood must be sloped to drain. All contaminants and imperfections that may impair adhesion must be removed. Completely clean all joints, cracks and seams. Fill all separations over 1/16 inch in width with polyurethane sealant. Apply joint reinforcement consisting of a 5 inch wide brush coat of EN-75 Base Coat and reinforcing fabric imbedded into the wet coating.

3.3 Metal: Flashing, scuppers, edges, vents, and other metal should be galvanized or non-ferrous. All should be properly secured 4 inches on center with non-corroding screws or ring shank nails to the substrate. Metal should be primed with a thin coat of EN-M-70 Metal Primer by using a sprayer or roller. Flashing should be caulked in front and back with polyurethane sealant. Use the EN-75 Base Coat to adhere reinforcing fabric at the joint of the metal and substrate.

4. Mixing & Priming:

EN-70 Primer is a two part epoxy primer. Stir Part A. Stir Part B. Mix all of Part A with all of Part B for 2 to 3 minutes. The mixed primer should stay in the mixing container for 30 minutes before use. Prime substrate at a rate of 250-300 square feet per gallon with EN-70 Primer. Allow primer to dry until it is tack-free for a minimum of one hour and no more than eight hours before the application of the Base Coat.

5. Color/Finish/Packaging:

EP - ENDURO-THANE P Pedestrian Deck Coating components should be used at package consistency. EN-75 Base Coat is gray and EN-76 Intermediate Coat is tan. Consult the Enduro Products Pedestrian Deck Coating Color Chart for EN-77 and EKS Acrylic Top Coat colors. The EP - ENDURO-THANE P Pedestrian Deck Coating system textured finish is created with 16-20 or 20-30 mesh silica sand. Coatings are available in five-gallon containers.

6. Application:

6.1 EN-75 Base Coat: Wipe clean all detail coats with a clean cloth and approved cleaning fluid. Pour a 6" ribbon of EN-75 Base Coat along the edge of the deck. Use a roller, trowel or squeegee to apply the coating 3" - 6" up on vertical walls and protrusions. Then, apply one or two coats of EN-75 Base Coat at a rate of 2.5 gallons per 100 square



feet or as needed to obtain an average of 40 wet mils. Allow coating to cure to a firm rubber before applying the Intermediate Coat. Drying time depends on temperatures and humidity.

6.2 EN-76 Intermediate Coat: Apply EN-76 Intermediate Coat to the entire deck with a roller, trowel or squeegee at a rate of 80 square feet per gallon or as needed to obtain 20 wet mils in one coat. Then, uniformly broadcast 16 or 20 mesh aggregate into the wet coating at a rate of 35 to 40 pounds per 100 square feet. Allow a minimum of 24 hours of drying time. Drying time depends on temperatures and humidity.

6.3 EN-77 Top Coat: Apply EN-77 Top Coat with a sprayer, roller or flat squeegee at a rate of one gallon per 80 square feet for a minimum thickness of 20 wet mils and to uniformly coat the aggregate. Allow the final system to cure 48 hours before allowing pedestrian traffic on the deck surface. Drying time depends on temperatures and humidity.

6.4 Optional EKS Acrylic Top Coat: An optional choice in lieu of the EN-77 would be to apply EKS Acrylic Top Coat by roller at a rate of one gallon per 90 square feet in two coats to uniformly coat the aggregate for a minimum thickness of 20 wet mils. Allow the final system to cure 48 hours before allowing pedestrian traffic on the deck surface. Drying time depends on temperatures and humidity.

7. Coverage:

Coverage will vary depending on the condition of the surface and the texture desired to achieve proper dry film thickness. Average applications will yield the mil thickness as follows: EN-75 Base Coat at a rate of 2.5 gallons per 100 square feet to obtain 40 wet mils; EN-76 Intermediate Coat at 80 square feet per gallon to obtain 20 wet mils; and EN-77 Top Coat at 80 square feet per gallon to obtain 20 wet mils or optional EKS Acrylic Top Coat at 90 square feet per gallon to obtain 20 wet mils. The thickness of the EP – ENDURO-THANE P Pedestrian Deck Coating system should be about 65 dry mils.

8. Limitations:

Ambient and surface temperatures must be above 55°F and relative humidity below 80%. Do not apply EP - ENDURO-THANE P Pedestrian Deck Coating system over any type of lightweight concrete without written approval by Enduro Products. Do not apply to surfaces with excessive moisture content or when there is a threat of rain.

9. Cleaning Instructions:

Clean up tools and equipment with appropriate cleaning fluids after use.

10. Safety Health and Environmental Recommendations:

Provide proper ventilation. Avoid coating contact with skin and eyes. Use protective goggles and clothing. In case of eye contact, flood eyes with water and call a physician immediately. Wash hands thoroughly with soap and water after handling. Do not take internally. If ingested, call a physician immediately. Read the Material and Safety Data Sheet for EP - ENDURO-THANE P Pedestrian Deck Coating system prior to handling or application as supplied by Enduro Products in California: (714) 526-5898, Fax (714) 526-6511; in Florida: (941) 378-9794, Fax (941) 378-9438; email: info@endurokote.com.

11. Warranty:

Enduro Products warrants its EP - ENDURO-THANE P Pedestrian Deck Coatings components to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Enduro Products makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose with respect for Enduro Products. Enduro Products' sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of EP - ENDURO-THANE P Pedestrian Deck Coating components proved to be defective and Enduro Products shall not be liable for any loss or damage.

Technical Data

PROPERTY	REFERENCE	RESULTS		
		EN-75	EN-76	EN-77
Composition		Aromatic Urethane	Aromatic Urethane	Aliphatic Urethane
Hardness, Shore A	ASTM D2240	65 ± 5	80 ± 5	90 ± 5
Tensile Strength	ASTM D412	900 ± 100 psi	2250 ± 250 psi	3500 ± 300 psi
Ultimate Elongation	ASTM D412	650 ± 100 %	450 ± 50 %	250 ± 50 %
Water Vapor Permeability	ASTM E96			< 0.1 perms
Tear Resistance	ASTM D1004	150 ± 25 lb./in.	250 ± 50 lb./in.	350 ± 50 lb./in.
Percent Solids By Weight	ASTM D1353	86 ± 2 %	81 ± 2 %	80 ± 2 %
Coating VOC	ASTM D3960	< 200 gm/l	< 250 gm/l	< 250 gm/l
Weather Resistance	ASTM G23	Slight chaulking @ 500 hours	Slight chaulking @ 1000 hours	Slight chaulking @2000 hours Negligible change

