



ENDURO-THANE V Vehicular Traffic Deck Coating

1. Description:

EP - ENDURO-THANE V Vehicular Traffic Deck Coating is an elastomeric, abrasion resistant, high performance, fluid applied coating system for waterproofing parking decks. This durable system has excellent adhesion, high elongation and tensile strength. The EP - ENDURO-THANE V Vehicular Traffic Deck Coating system consists of a two part epoxy primer with a single component polyurethane base coat, intermediate coat and top coat.

2. Uses:

EP - ENDURO-THANE V Vehicular Traffic Deck Coating system is designed for use on new or existing above grade structural concrete surfaces to withstand light to heavy vehicular traffic.

3. Surface Preparation:

All concrete surfaces to receive the EP - ENDURO-THANE V Vehicular Traffic Deck Coating system should be of sound structural grade suitable for vehicular traffic. 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.

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 concrete 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. After wire brushing or sandblasting all metal, metal should be primed with a thin coat of EN-M-70 Metal Primer by using a sprayer or roller.

5. Color/Finish/Packaging:

EP - ENDURO-THANE V Vehicular Traffic 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 Parking Deck Coating Color Chart for EN-77 Top Coat colors. The EP - ENDURO-THANE V Vehicular Traffic 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 or squeegee to apply the coating 3" - 6" up on vertical walls and protrusions. Then, apply EN-75 Base Coat to the entire deck with a notched squeegee at a rate of 50 square feet per gallon or as needed to obtain 30 wet mils in one coat. Allow coating to cure 16 to 48 hours (drying time depends on temperatures and humidity) with a slight tack remaining before applying the EN-76 Intermediate Coat.

6.2 Light Traffic System: Apply EN-76 Intermediate Coat to the entire deck with a roller or notched squeegee at a rate of 80 square feet per gallon or as needed to obtain 20 wet mils in one coat. Then, uniformly broadcast 20-30 mesh silica sand into the wet EN-76 Intermediate Coat at a rate of 10 to 12 pounds per 100 square feet and backroll. Allow coating to dry overnight. Apply EN-77 Top Coat with a roller or notched squeegee at a rate of 100 square feet per gallon for a minimum thickness of 16 wet mils in one coat. Allow the final system to cure 72 hours before allowing vehicular traffic on the deck surface. Drying time depends on temperatures and humidity.



6.3 Heavy Traffic System: Apply EN-76 Intermediate Coat to the drive lanes, ramps, turns and access gate areas with a roller or notched squeegee at a rate of 80 square feet per gallon or as needed to obtain 20 wet mils in one coat. Then, uniformly broadcast 16-20 mesh silica sand into the wet coating at a rate of 10 to 12 pounds per 100 square feet and backroll. Allow coating to dry overnight. Apply EN-76 Intermediate Coat to the entire deck with a roller or notched squeegee at a rate of 80 square feet per gallon or as needed to obtain 20 wet mils in one coat. Then, uniformly broadcast 16-20 mesh silica sand into the wet coating at a rate of 10 to 12 pounds per 100 square feet and backroll. Allow coating to dry overnight. Apply EN-77 Top Coat with a roller or notched squeegee at a rate of 100 square feet per gallon. Allow the final system to cure 72 hours before allowing vehicular 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 50 square feet per gallon to obtain 30 wet mils; EN-76 Intermediate Coat at 80 square feet per gallon to obtain 20 wet mils; and EN-77 Top Coat at 100 square feet per gallon for a minimum thickness of 16 wet mils.

8. Limitations:

Ambient and surface temperatures must be above 55°F and relative humidity below 80%. 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 V Vehicular Traffic 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 V Vehicular Traffic 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 V Vehicular Traffic 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

