



UV-STABLE, CLEAR, HIGH-BUILD POLYURETHANE COATING FOR MODERATE- AND HEAVY-DUTY COMMERCIAL AND INDUSTRIAL USE

PRODUCT DESCRIPTION

DurathaneTM is a two-component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

APPLICATIONS

Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, indoor or outdoor service and chemical exposure areas.

TYPICAL DATA FOR DURATHANETM - (CURED RESIN)

Flexibility	
ASTM D 790	No cracks on a 1/8" mandrel
Shore D Hardness	
ASTM D 2240	72
Adhesion	
ASTM D 4541	360 PSI
Impact Resistance	
Mil-D-3134 Passes	Sec. 4.7.3 160 in/lbs.
Taber Abrasion	
ASTM D 4060	20 mg/500rev., cs17

Solids Percentage	53% pigmented (mixed) 53% clear (mixed)
Viscosity	200-400 cps (mixed)
VOC EPA Method 24	<448 g/l

CURE SCHEDULE

Pot Life (1 1/2 Gallons volume)	2-5 hours
Tack Free (dry to touch)	2-4 hours
Recoat or topcoat	4-8 hours
Light foot traffic	14-24 hours
Full cure (heavy traffic)	3-5 days

PRODUCT DATA

Weight per Gallon	9.1 lbs/gal (mixed)
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PACKAGING

DurathaneTM is available in one-quart (946.353ml,) three-gallon (11.35L,) and fifteen-gallon (56.78L) kits.

SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast) or mechanical grind. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4' x 4' plastic sheet on the substrate and taping down the edges. If after 24 hours the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause delamination.

MIXING

This product has a two to one mix ratio by volume. Mix two parts of part A with 1 part of part B. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure.

COVERAGE

Product coverage is 300-500 sq ft per gallon at 3-5 mils wet thickness, depending upon the existing substrate surface profile and thickness of the designed system.

APPLICATION METHODS

The mixed material can be applied by brush or roller. Maintain temperatures within 45-90 degrees F with relative humidity below 90% during the application and curing process. Properly prime the substrate. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in solvent entrapment and product failure.

LIMITATIONS



- Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights.
- Slab on grade requires moisture barrier
- Substrate temperature must be 5°F above dew point
- All new concrete must be cured for at least 30 days
- Physical properties are typical values and not specifications
- Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide.
- Tire contact may cause staining and discoloration
- Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job.

MAINTENANCE

For maximum life expectancy, routinely sweep and wash floors with appropriate cleaners and detergents. Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

IMPORTANT INFORMATION

Use of safety goggles, chemical-resistant gloves, adequate ventilation and NIOSH/MSHA approved respirator is recommended.

CLEAN UP

Clean tools with ketone solvents. In case of spills wear suitable protective equipment, contain spill, collect with

CLEAN UP (Continued)

absorbent material, place in suitable container. Ventilate area. Avoid contact. Dispose according to applicable local, state, and federal regulations.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact physician immediately. Wash clothing before re-use.

Consult Material Safety Data Sheet for More Information

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

ORDER SPECIFICATION

Product: Durathane™		
Shipping Weight: 3 lbs (1.36 kg)	Container Size: 1 Quart (0.946 L)	Item No: EP-DT-Q-CLEAR
Shipping Weight: 30 lbs (13.6 kg)	Container Size: 3 Gallon (11.35 L)	Item No: EP-DT-3-CLEAR
Shipping Weight: 150 lbs (68.04 kg)	Container Size: 15 Gallon (56.78 L)	Item No: EP-DT-15-CLEAR

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