EPIC® Water-Based Urethane

ULTRA DURABLE TECHNOLOGIES
Manufacturing Innovative Coatings





PRODUCT NAME

EPIC®

MANUFACTURER

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PRODUCT DESCRIPTION

EPIC (Gloss or Matte) is a clear, high-performing, urethane floor finish exclusively formulated by Ultra Durable Technologies to eliminate wasted labor, water, energy, and resources required to maintain traditional floor finishes.

EPIC is a low-VOC (<50 g/l), water-based urethane floor finish yielding a long-lasting, tough, protective finish that lasts up to 50 times longer than any other floor finish. One, thin coat of EPIC eliminates the constant need for stripping, buffing, polishing, and frequent recoating of interior floors.

UNIQUE ADVANTAGES

- One coat replaces multiple coats of traditional acrylic floor finish
- Eliminates buffing and frequent recoating
- Restores dull and heavily worn “no wax” floors
- Dramatically reduces ongoing maintenance costs
- Non-yellowing, UV stable, and extremely chemical and abrasion resistant
- Add Ultra Grip or UDT Aggregate to increase traction (DCOF) and abrasion resistance
- Available in high-gloss and matte

PROVEN INDUSTRIES

Healthcare: Hospitals, Clinics, Long-term Care
Education: Schools, Universities, Churches
Industrial: Manufacturing, Production, Warehousing
Transit: Airports, Hangars, Bus/Train Stations
Commercial: Retail, Restaurants, Showrooms
Entertainment: Arenas, Convention Centers, Gaming
Government: Military Bases, Stations, Prisons

EPIC BENEFITS FOR VARIOUS FLOOR TYPES

LVT, Sheet Vinyl, & Linoleum – Keep the “no wax” appeal, improve cleanability, and restore appearance.

VCT – Transform VCT into a “no wax” flooring that does not require buffing and frequent recoating.

Tile & Grout – Create a protective barrier that makes grout easy to clean while eliminating odors.

Concrete & Terrazzo – Protect against chemical staining, etching, and eliminate ongoing polishing and finishing.

PACKAGING (Packaged as kits)

Mini Kit: 1/10 gallon (approximately)
Standard Kit: 1/2 gallon (approximately)
Contractor Kit: 1 gallon (approximately)

COMPONENTS

EPIC is available in a high gloss or matte sheen with either 4-hour or 8-hour dry times.
Part A: Gloss or Matte
Part A-1: 4 hour or 8 hour, Gloss or Matte
Part B: Universal

ADDITIONAL / OPTIONAL COMPONENTS

Water: Once Parts A, A-1, and B have been combined, add the amount of water listed on the mixing instructions. (see Part A label or EPIC Training Manual for instructions)

EPIC Bond Promoter: Add EPIC Bond Promoter when direct adhesion to ceramic or stone is needed

Ultra Grip or UDT Aggregates: Add when additional abrasion resistance and/or increased traction is desired

COVERAGE RATES

EPIC should be applied with a T-bar and back-roll method or dip and roll method with high-quality, lint-free rollers.

	T-bar / Back-roll Method	Rolling Method
Mini Kit:	60 SF	30 SF
Standard Kit:	300-400 SF	150-250 SF
Contractor Kit:	600-800 SF	300-500 SF

SHELF LIFE (Stored at or below 75°F / 25°C)

Ensure that components are not expired before mixing.
EPIC Part A: 6 months (see “use by date” sticker on lid)
EPIC Part A-1: 1 year
EPIC Part B: 2 years
EPIC Bond Promoter: 1 year

PREPARATION, APPLICATION, & MAINTENANCE

Refer to the **EPIC Training Manual** for detailed instructions about floor preparation, mixing, application methods, and cleaning and maintenance.

Visit www.ultradt.com and go to “Training”.

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POT LIFE (70°F / 50% r/H)

Once mixed, apply EPIC (gloss or matte) within the "pot life": EPIC 4hr = 45 minutes, EPIC 8hr = 90 minutes

WORKING TIME (70°F / 50% r/H)

Once applied, back-roll EPIC (gloss or matte) within the "working time": EPIC 4hr = 3 minutes, EPIC 8hr = 6 minutes

ENVIRONMENTAL CONDITIONS

Before mixing and applying coatings, it is important to test the environmental conditions. UDT recommends using a Psychrometer to test the air temperature and humidity, an Infrared Thermometer to test the floor temperature, and a Moisture Meter or calcium chloride kit to test the moisture content when applying EPIC direct to concrete.

Air Temperature: Only apply EPIC when air temperature is between 40-90°F (4-32°C). Temperatures below 70°F (21°C) may lengthen dry time. Fans/air movers may be used to aid the drying process.

Humidity: EPIC dry times are lengthened (slower) in high-humidity and shortened (faster) in low-humidity environments. EPIC must NOT be applied when the humidity is above 70%. Adjustments to the temperature or relative humidity may need to be made before beginning the coating process. For best results, use fans and/or dehumidifiers when applying coatings in moist or humid environments.

Floor Temperature and Dew Point: EPIC must not be applied when the floor temperature is less than 5° above the dew point. Monitoring the substrate temperature, indoor temperature, and RH, and utilizing fans and/or dehumidifiers as needed will help correct or prevent existing or possible dew point conditions until the installation is complete.

Moisture Content: Ensure that the floor to be coated is dry prior to starting the EPIC application process. Concrete floors must be cured prior to coating (poured and aged at a material temp of at least 75°F for at least 30 days), structurally sound, and free of contaminants including but not limited to waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and any surface laitance (a layer of weak and nondurable material). All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing (ASTM F1869) or plastic sheet testing (ASTM D4263) and relative humidity probe testing (ASTM F2170) to determine if excessive levels of moisture vapor emissions are present before applying any coatings. Slabs on grade must have a moisture vapor emission rate of less than 8 pounds / 1,000 SF / 24 hours when measured by calcium chloride test.

TECHNICAL DATA

	Gloss	Matte	ASTM Method
Solids Content	49%	49%	D5201
Odor	Low/Mild	Low/Mild	
Color (mixed)	White	White	
VOC (grams / liter)	46 g/L	25 g/L	D7768-12
Gloss 60°	85°-91°	10-20°	D523
Mixed Viscosity	15 cps	10 cps	2196
Adhesion pull test (Concrete)	>400 psi	>400 psi	D4541
Dry DCOF	0.51	0.9	ANSI A326.3-22
Permeability	5.5	11.8	D1653
Elongation (14 Day)	54.5	15.0	D2370
Tensile Strength	2608	1368	D2370
1/8" Mandrel Bend	Pass	Pass	D522
Reverse Impact Resist.	84 in/lbs	32 in/lbs	D2794
König Hardness	215 sec.	140 sec.	D4366-16
Taber Abrasion, CS-17, 1000g, 1000 cycles	27 mg	24 mg	D4060
Foot Traffic 4-Hour	5 hours	4 hours	
Foot Traffic 8-Hour	8 hours	8 hours	
Wheeled Traffic	N/A		
Recoat Window	N/A, sanding required between coats		

CHEMICAL RESISTANCE

7-day cure, 4-hour spot test	Gloss	Matte
Betadine Solution	Slight Stain*	Stain
Bleach	Pass	Pass
Coca-Cola	Pass	Pass
Coffee	Pass	Pass
Hand Sanitizer (70% ethyl)	Pass	Pass
Ketchup	Pass	Pass
Liquid Hand Soap	Pass	Pass
Mustard	Slight Stain	Stain
Pickle Juice	Pass	Pass
Red Dye #40	Pass	Stain
Toilet Bowl Cleaner	Slight Stain*	Stain
Used Motor Oil	Pass	Pass
Vinegar	Pass	Pass

** Removable with rubbing alcohol*

LIMITATIONS

- EPIC Matte must not be applied to concrete with the T-bar/Back-roll method.
- Cementitious overlays must be grinded and primed before applying EPIC.
- Do not apply EPIC in areas where water may be standing for more than 24 hours at a time.

WARRANTY

Ultra Durable Technologies, Inc.'s products are warrantied to be of uniform quality within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied, is made to the effects of such use. UDT's obligations under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective.