



## PRODUCT NAME

**EPIC<sup>®</sup>**

## MANUFACTURER

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## PRODUCT DESCRIPTION

EPIC is an innovative, high-performance floor finish that is exclusively formulated by Ultra Durable Technologies to replace all the hassles associated with traditional floor finishes or waxes.

EPIC is a single-coat, low-VOC, water-based urethane floor finish that produces a long-lasting, tough, protective finish that lasts up to 50 times longer than any other floor finish. The remarkable performance of just one thin coat of EPIC eliminates the constant need for stripping, buffing, and frequent recoating.

## EPIC USES

**VCT** – Transforms VCT into a “no wax” flooring that requires no ongoing maintenance.

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

**Tile & Grout** – EPIC creates a protective barrier making it attractive and easy to clean and maintain.

## 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

## 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
- May be used with Ultra Grip abrasion and slip-resistant additives
- Available in high-gloss and matte
- Achieve semi-gloss with the use of Ultra Grip

## PACKAGING

**Parts: A (Gloss or Matte), A-1 (4HR or 8HR), B**

Standard Kit: Approx. 1/2 gal.

Contractor Kit: Approx. 1 gal.

**Additional/optional components:**

-EPIC Bond Promoter: Add Bond Promoter to EPIC when direct adhesion to ceramic, porcelain or stone is needed.

-Ultra Grip: Available in Fine, Medium, Coarse sizes for additional abrasion and traction.

## COVERAGE RATES

Standard Kit – T-bar or Roll / Back-roll: 250-400 SF

Standard Kit – Rolling Process: 150-250 SF

Contractor Kit – T-bar or Roll / Back-roll: 500-800 SF

Contractor Kit – Rolling Process: 300-500 SF

## SHELF LIFE

6 months unopened when stored at room-temperature (59-77°F, 15-25°C)

## TECHNICAL DATA

Solids content	46 - 50%	ASTM D2369
Odor	Mild	
Color (when mixed)	Milky White	
VOC Content	90 g/l	ASTM D7768-12
<i>VOC compliant in all U.S. states except Los Angeles SCAQMD counties</i>		
Gloss level @ 60° - gloss	90°	
Gloss level @ 60° - matte	10°	
Mixed viscosity	19 cps	ASTM 2196
Pot life, Gloss 4hr / 8hr	45 min / 90 min.	
Pot life, Matte 4hr / 8hr	30 min / 60 min.	
Dry times (77 deg / 50% rH)		
- Dry to touch - 4hr / 8hr	3 hrs / 5 hrs	
- Light foot traffic - 4hr / 8hr	4 hrs / 8 hrs	
- Recoat window - 4hr / 8hr	3-5 hrs / 6-10 hrs	

## TECHNICAL DATA (continued)

Full cure / chemical resistance	7 days	
Hardness	3H	Pencil test
1000 Hour QUV - Gloss & Matte		
- CIE Δb (yellow units)	<1	ASTM G154
- CIE ΔE (color change)	<1	ASTM G154
- Δ gloss (gloss change)	<2%	ASTM G154
Taber Abrasion, CS-17, 1,000 grams, 1,000 cycles	45 mg loss	ASTM D4060
Elasticity (Mandrel Bend)	1/8" pass	ASTM D522
Tensile Strength	2185 psi	ASTM D2370
Elongation	75%	ASTM D2370
Water Vapor Transmission	2.43 perms	ASTM D1653
Wet DCOF Gloss	0.34	ANSI B101.3
Wet DCOF w/Fine Ultra Grip	0.55	ANSI B101.3
Wet DCOF w/Med Ultra Grip	0.54	ANSI B101.3
Wet DCOF w/Coarse Ultra Grip	0.70	ANSI B101.3

## CHEMICAL RESISTANCE

Bleach	Pass
Coffee	Pass
Coca-Cola	Pass
Liquid Hand Soap	Pass
Red Dye #40	Pass*
Alcohol Hand Sanitizer	Pass
Wax Stripper diluted 25%	Pass
Betadine Solution	Pass*
Vinegar	Pass
Ketchup	Pass
Mustard	Pass*
Pickle Juice	Pass
Used Motor Oil	Pass
Toilet Bowl Cleaner	Pass

\* Mild stains may occur - removable with rubbing alcohol

## FLOOR PREPARATION

It is extremely important to remove all existing acrylic or other foreign finishes or sealers. Remove contaminants including dust, dirt, grime and oils. Unfinished, "no wax" and existing urethane coated floors must be abraded with an approved maroon conditioning pad at UDT recommended rates.

## Stripping water-based acrylic finish/sealer/wax:

In a clean mop bucket, properly dilute acrylic wax stripper with water according to label directions. Liberally apply the diluted acrylic stripper to the floor making sure to spread it evenly. Do not apply stripper solution to more surface area than can be scrubbed and extracted in a timely manner. Allow the stripper solution to dwell (sit) on the floor for 10-15 minutes. At the room entrance, affix a UDT supplied Ultra-Blue or Hi-Pro Black stripping pad to your round or square floor machine. Caution: Floors will likely be very slippery. After the 10-15 minute dwell (sit) time, scrub the floor slowly with the stripping pad. Scrubbing with the stripping pad should create a milky slurry and loosen the acrylic finish. Step only on areas that have been scrubbed to minimize slipping. If floors feel slick under foot, more scrubbing is likely needed. Since most floors are uneven, make sure to run the machine in at least 2 different directions to ensure the acrylic is all being removed. Turn machine on its edge (heel) to increase PSI on stubborn and hard to remove areas. Keep the floor/slurry from getting dry. If the floor becomes dry, add plain water. Flip the stripping pad as it becomes clogged and ineffective – approximately every 250 SF. Use a scraper and/or razor blade to carefully remove any heavy build up. Abrade wall edges, corners and other hard to reach areas using a Doodle Bug and stripping pad. Do not rely on the floor machine to prepare the edges and corners. Use a scraper and/or razor blade to carefully remove any heavy build up. After scrubbing the floor, immediately extract the slurry from the floor surface using a wet-vacuum. Affix a new, clean UDT supplied black stripping pad directly to the floor machine. With a generous amount of clean, plain water, scrub rinse the floor to remove any remaining acrylic/stripper slurry. For VCT floors, a 150-grit screen under a clean pad may be substituted for an Ultra-Blue or Black pad (with caution) to remove small amounts of remaining stubborn acrylic/wax. Always test the 150-grit screening process in an inconspicuous area to ensure that the flooring is not damaged from this process. Never start the screening process in front of a door or in the middle of a room. After scrub rinsing the floor, immediately extract all water from the floor surface using a wet-vacuum. Carefully inspect all areas of the floor. If any acrylic finish remains (even a very small amount), repeat the process. Expect to strip the floor at least two times. On rare occasions, a single strip will remove all the acrylic. VCT floors should be dull and slightly chalky. Proceed to **Final Cleaning**.

## For floors with no existing finish/sealer/wax:

Begin by staging the area with protective walk-off matting at the doorway. Apply tape (and plastic where needed) to doorways and other surfaces that need to be protected such as baseboards. Test floor surface to ensure that no acrylic wax exists on the surface. If acrylic wax is present, refer to instructions above. Abrade wall edges, corners and other hard to reach areas using a dry or slightly damp

maroon pad on a Doodle Bug holder. Do not rely on floor machine to prepare the edges and corners. In a clean mop bucket, properly dilute a multi-purpose cleaner with water according to the label directions. For new or unsoiled floors, plain water may be used. Apply multi-purpose cleaner to the floor. Affix a UDT supplied Very Fine Maroon Conditioning Pad (Maroon Pad) to your round or square floor machine. Place a red, green or blue pad between the machine and the maroon pad. Scrub the floor slowly with the UDT maroon pad at a rate of no more than 750-1,000 SF per hour. Scrub with the maroon pad to both clean and micro-abrade the surface. Since most floors are uneven, make sure to run the machine in at least two different directions to ensure that the entire surface is evenly abraded. This is a critical step in the process. Improperly abraded or contaminated floors may cause adhesion problems. Make sure to flip the pad after 100 SF to ensure adequate abrasion is achieved. Discard maroon pads after 200 total SF and affix a new maroon pad under the floor machine. Example: 1,000 SF will require 5 maroon conditioning pads. Using a wet-vacuum, extract all water and debris from the floor surface. Affix a new UDT supplied red, green or blue pad directly to the floor machine. With a generous amount of clean, plain water, scrub rinse the floor to remove any remaining film or residue from the floor. Wet vacuum floor to extract all water and debris from the floor surface. Proceed to **Final Cleaning**.

#### **For recoating floors previously finished with EPIC:**

In a clean mop bucket, properly dilute multi-purpose cleaner with water according to the label directions. For new or unsoiled floors, plain water may be used. Clean the floor by applying the diluted solution of multi-purpose cleaner to the floor using a mop and bucket or microfiber mop. Allow floor to dry. Affix a UDT supplied maroon pad to your round or square floor machine. Place a red, green or blue pad between the machine and the maroon pad. More heavily scratched areas may require a scrub with 100 - 150 grit screens to remove deep scratch marks. Scrub the floor slowly with the dry or slightly damp maroon pad at a rate of no more than 750-1,000 SF per hour. Scrub with the maroon pad to both abrade the surface and smooth out any existing scratches in the EPIC. This is a critical step in the process. Improperly abraded or contaminated floors may cause adhesion problems. If the potential raising of a small amount of dust particles must be avoided, dampen floor slightly to eliminate dust creation. Make sure to stop and flip the pad after 100 SF to ensure adequate abrasion is achieved. Discard pads after 200 total SF and affix a new pad under the floor machine. Example: 1,000 SF will require 5 pads. Abrade wall edges, corners and other hard to reach areas starting with a dry or slightly damp maroon pad on a Doodle Bug holder. Do not rely on the floor machine to prepare the edges and corners unless using a rectangular orbital machine. If the potential raising of a small amount of dust particles must be avoided, dampen

floor slightly to eliminate dust creation. Apply a liberal amount of diluted multi-purpose cleaner to the floor with a mop and bucket. Affix a UDT supplied Very Fine Maroon Conditioning Pad (Maroon Pad) to your round or square floor machine. Place a red, green or blue pad between the machine and the maroon pad. Wet scrub the floor slowly with the UDT maroon pad at a rate of no more than 750-1,000 SF per hour. Scrub with the maroon pad to both clean and micro-abrade the surface. Since most floors are uneven, make sure to run the machine in at least two different directions to ensure that the entire surface is evenly abraded. This is a critical step in the process. Improperly abraded or contaminated floors may cause adhesion problems. Make sure to stop and flip the pad after 100 SF to ensure adequate abrasion is achieved. Discard maroon pads after 200 total SF and affix a new maroon pad under the floor machine. Example: 1,000 SF will require 5 maroon conditioning pads. Using a wet vacuum, extract all water and debris from the floor surface. Proceed to **Final Cleaning**.

#### **FINAL CLEANING**

Mop the floor with clean water and a clean mop-head or clean microfiber flat mop. Test floor pH to ensure that the floor surface is neutral before proceeding. If pH is high (above 8), scrub rinse and wet vacuum again. Let floors dry, use a fan to speed the drying process. Inspect the floor to ensure the entire surface has been adequately abraded and no dirt remains in scratch marks. The floor should be dull with no shine. NOTE: If floor is severely damaged or heavily scratched, the T-Bar/Back-roll process may not be sufficient to hide the scratches and heavily worn areas. The EPIC Rolling process may be preferential in this case.

#### **APPLICATION PREPARATION**

Before beginning, confirm the square footage of the area to be coated. Make sure you have the correct amount of EPIC. Affix shoe covers to avoid getting contamination or debris on the floor. Stage the area with protective walk-off matting at the doorway. Tape off any doorways, exits or other areas that should not be coated. Tape a trash bag to the floor at your planned exit to pick up any excess EPIC. Apply a small piece of tape to the floor at the ideal coverage rate points. Affix rollers and/or refills on frames and de-lint with tape. Keep a rag or paper towel handy to wipe any EPIC that may get on the wall base or permanent fixtures.

#### **ENVIRONMENTAL CONDITIONS**

Applying EPIC outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area for desired results prior to application. Test the environmental conditions within the area to be finished using a Psychrometer, Infrared Thermometer, and Moisture Meter.

**Air Temperature:** ONLY APPLY EPIC when the air temperature is between 40-90°F (4-32°C).

**Humidity:** EPIC dry times are lengthened (slower) in low-humidity and shortened (faster) in high-humidity environments. EPIC SHALL NOT be applied when the humidity is above 70%. Adjustments to the temperature or relative humidity may need to be made prior to beginning the coating process. For best results, use fans and/or dehumidifiers when applying coatings in moist or humid environments. Even though a building may be climate controlled, technicians should still check the temperature and humidity and take appropriate action. Beware that some facilities have automatic thermostats that are turned down or even turned off in the evening hours. This can dramatically affect the temperature and humidity in the building.

**Floor Temperature and Dew Point:** EPIC SHALL NOT be applied when the floor temperature is less than 5° above the dew point (See *DEW POINT CALCULATION CHART*). 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 COMPLETELY dry prior to starting the EPIC application process.

## POT LIFE

Always use mixed product within pot life.

- 8 Hour GLOSS: 90 minutes
- 4 Hour GLOSS: 45 minutes
- 8 Hour MATTE: 60 minutes
- 4 Hour MATTE: 30 minutes

## MIXING INSTRUCTIONS

Mixing videos available at: <https://ultradt.com/videos-2/>

Ensure USE BY DATE on Part A is current (not expired) and all components are room temperature 59-77°F (15-25°C).

### – Standard Kits

- 1) Shake Part A-1 (4hr. or 8hr.) and pour into Part A and stir.
- 2) While stirring, pour Part B into A/A-1 mixture. Scrape all sides and bottom well. Stir for 90 seconds.
- 3) Allow A/A-1/B mixture to dwell (sit) for one (1) minute.
- 4) Add 16 oz. of room-temperature water slowly while stirring for 30 seconds.
- 5) If Coating Tile & Grout: Add 1.5 oz. Standard EPIC Bond Promoter and stir for 30 seconds.
- 6) **OPTIONAL** - add Aggregate Additive or one (1) bag Ultra Grip. Stir before every pour.

### – Contractor Kits

- 1) Shake Part A-1 (4hr. or 8hr.) and pour into Part A and stir.
- 2) While stirring, pour Part B into A/A-1 mixture. Scrape all sides and bottom well. Stir for 90 seconds.
- 3) Allow A/A-1/B mixture to dwell (sit) for one (1) minute.

- 4) Add 32 oz. of room-temperature water slowly while stirring for 30 seconds.
- 5) If Coating Tile & Grout: Add 3 oz. Contractor EPIC Bond Promoter and stir for 30 seconds.
- 6) **OPTIONAL** - add Aggregate Additive or two (2) bags Ultra Grip. Stir before every pour.

## APPLICATION INSTRUCTIONS

Application videos at <https://ultradt.com/videos-2/>

NOTE: Applying EPIC outside of the suggested parameters may result in job failure. It is always recommended to test the product prior to application in a small area to ensure desired results.

### ROLLING PROCESS:

Coverage per Contractor Kit: 300-500SF

Pour a 1 – 2" deep puddle of mixed EPIC into an 18" rolling pan. Filling the rolling pan with more than this amount will increase the likelihood of EPIC dripping off the edge of the roller frame. Using a UDT 3/8" nap roller cover, saturate the roller in the EPIC and roll on the floor evenly in a "W" motion. Re-roll the area with little or no pressure to "feather" in and evenly distribute EPIC. Roll an area approximately 3'x 6' each time you saturate the roller. Do not roll far into the previously coated surface but do overlap about 6 – 12 inches and "feather" at the end of each roll by lifting the roller as you enter previously coated areas. Use a UDT supplied 6"x 3/8" nap roller for edges and a 2" chip brush for corners and hard to reach areas. Repeat until all areas are coated. Proceed to **Clean up**.

### T-BAR/BACK-ROLL PROCESS:

Coverage per Contractor Kit: 500-800SF

Optional application method for optimal coverage rates (may yield a slight texture): Pour a line from wall to wall approximately 3 – 4 inch wide onto the prepared floor. This line should be poured approximately 8" away from the front wall. Place the T-Bar into the line of finish on the surface at an angle and spread the EPIC in a snow plow-like motion so that it runs off the side nearest you, away from the wall. Be sure to keep the EPIC in front of the T-Bar. When approaching a side wall, rotate the T-bar 90 degrees to the line of EPIC along the side wall and pull the T-bar along the side wall approximately 18 inches. Then, rotate the T-bar 180 degrees so that the wet edge of the T-bar is now against the wall. Continue to drag the T-bar at a slight angle back across the room with the wet edge of the T-bar now along the wall. Avoid creating a puddle of EPIC right next to the wall. After 2 passes with the T-Bar, back-roll over the EPIC along the wall using the 6.5" edge mohair backroller. Continue gliding the T-bar from wall to wall. Apply consistent downward pressure to the T-bar to leave an even amount of EPIC on the floor. Begin the back-roll process with an 18" x 1/4" mohair backroller. Roll vigorously back and forth over the previously spread product to remove any lines left by the T-Bar. Feather at the end of each roll by reducing pressure on the roller handle and lifting slightly on a line or seam whenever possible. Make

sure the puddle for the T-bar never runs dry by pouring additional EPIC on the floor. Avoid misses or dry spots by pouring EPIC as necessary to maintain a 3 – 4 inch wide line. Repeat the T-Bar/Back roll process until all surfaces are coated. When approaching the coverage rate mark, mix an additional kit of EPIC. Do not run out of EPIC prior to starting the mixing process to avoid creating visible stop and start marks. When approaching the room exit or a corner of the room, it may be necessary to make an “L” shape along the side wall. To do this, turn the T-bar 90 degrees to the original line of EPIC and pull the bar up along the side wall up to the wall where you will exit. Make 2-3 passes with the T-bar along the side wall, and then resume making 2-3 passes on the original line. Proceed to alternate with the T-bar/Back-roller between the original line and the new line at 90 degrees until you reach the planned exit. Proceed to **Clean up**.

#### **ROLL/BACK-ROLL PROCESS:**

Coverage per Contractor Kit: 500-800SF

This process yields a comparable coverage rate and appearance to the T-bar/Back-roll process. Rather than spreading EPIC with a T-Bar, EPIC may be applied and spread out thin with a 3/8” nap woven roller and back-rolled with a separate 1/4” mohair roller to remove any roller marks. To begin, Pour mixed EPIC into a rolling pan. Dip the 6.5” x 3/8” nap woven edge roller and apply a thin coat of EPIC along far wall or edge and back 3-4 feet along each side wall. Next, dip the 18” x 3/8” nap woven roller and roll a thin coat of EPIC on the floor using a “W” motion. Then, use a dry 18” x 1/4” nap mohair roller to immediately back-roll all areas where EPIC has been applied to remove any remaining roller marks. Continue applying EPIC with the 3/8” nap rollers and backrolling with the 1/4” mohair rollers. Move quickly and do not “over work” EPIC. Finish all back-rolling of EPIC within 1 – 2 minutes. Keep 1/4” mohair rollers as dry as possible.

Proceed to **Clean up**.

#### **TIPS:**

- Keep the mohair backrollers as dry as possible and never roll into the puddle of EPIC. If backrollers become saturated with EPIC, squeeze out excess EPIC on a dry part of the floor.
- Back-roll quickly as the EPIC will start to become tacky in 1-2 minutes. Back-rolling into the EPIC that has begun to set up will leave roller marks.
- Resist overworking the EPIC and do not slide back-roller sideways.
- While back-rolling, the backroller Technician should step back and allow the T-bar Technician to pass.
- Apply EPIC on hard to reach areas with a 2” chip brush.
- Keep a rag or paper towel handy to wipe EPIC that may get on the wall base or permanent fixtures.
- Apply tape across all doorways and place “Wet Floor” signs indicating the time and date that the floor will be dry and ready for use.

- Use fans and/or dehumidifiers to accelerate dry times or in humid environments that have little to no airflow. Keep doors open to assist with the airflow.

#### **CLEAN UP**

When the EPIC application is complete (or when T-bar refills, rollers or back-rollers have been used for 2 hours), discard into the trash. Remove the applicator from the T-bar as soon as possible by twisting and pulling it at the same time. The T-bar refills, rollers and back-rollers are not reusable. Place the wet T-bar and back-rollers in the trash bag, pull the tape, and remove the trash bag from the floor. Wash the T-bar and roller frames with a damp rag or soap and hot water. Alcohol may be used if necessary. Allow excess mixed EPIC to dry in the bucket overnight before discarding.

#### **CLEANING AND MAINTENANCE INSTRUCTIONS**

##### **Daily Cleaning**

Dust mop or sweep your floor daily to remove loose dirt. Wipe/clean up spills promptly. Occasional damp microfiber mopping is recommended when dirt builds up and dust mopping or sweeping alone is not sufficient. Use a clean microfiber pad designed for damp mopping procedures. Wet pad with water and wring pad out thoroughly until it is damp (not dripping). Use a “figure eight” motion to clean floor. Be sure to rinse and wring pad frequently and change the water as it becomes cloudy/ dirty. Never clean floors with dirty water. Neutral pH cleaners may be used. Overuse of cleaning products, detergents, water or dirty water may leave a residual film on the floor. Rinsing with plain hot water may be required to remove any film or haze. Hot water will not harm the finish and will aid in removing the film. A dry mop or micro-fiber wipe after the wet process will remove any film or residual water marks.

**Caution:** Floors can be slippery when wet. Use extreme caution when walking or working on a wet floor.

##### **Auto / Machine Scrubbing**

Wet auto scrubbing or machine scrubbing are suggested on an as-needed basis. Use UDT provided Microfiber Machine Pads only. Launder pads periodically as they will become dirty and will no longer clean effectively. **Never dry scrub or buff EPIC coated floors.**

##### **Floor Protection**

Address areas of wear and affix floor protectors to any furniture or fixture that may be prematurely damaging the floor. (See Expanded Technologies Catalog).

#### **WARRANTY**

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