

EPIC[®] Training Manual



ULTRA DURABLE
TECHNOLOGIES
Manufacturing Innovative Coatings

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EPIC® Floor Preparation: Stripping Acrylic/Wax

YOU WILL NEED

Caution Tape & Wet Floor Signs
Chemical-Resistant Tape
Protective Walk-Off Matting
Acrylic/Wax Stripper (ensure linoleum-safe if applicable)
Stripping Pads: Round Ultra-Blue or High-Pro Black
Round Screens, 60-150 grit (optional)
Doodle Bug Holder & Pads
Scrapers and/or Razor Blades
Citric Acid
PH Test Paper
3 Clean String Mop Heads, Handles, & Bucket
175 RPM Roto or Rectangular Orbital Floor Machine
Wet Vacuum (with Squeegee preferred)
Fans/Air Movers
Shoe Covers
Traction Stripping Shoes
Rubber Gloves
Safety Glasses
Microfiber Mop Frame & Pads
Rags/Towels

For VCT or other smooth floors (not linoleum), a grit screen may be placed under a pad to remove small amounts of stubborn acrylic/wax. Test first in an inconspicuous area to ensure no damage. Never start near a door or mid-room. Never use screens on linoleum flooring.



STAGE THE AREA with protective walk-off matting at doorway. Apply tape (and plastic where needed) to doorways, baseboards, and other surfaces needing protection. Remove all movable fixtures. Place caution tape and wet floor signs.

PERSONAL PROTECTIVE EQUIPMENT (PPE) should be worn. Refer to Safety Data Sheets (SDS) for additional information.

ACRYLIC STRIPPER:

Prepare in clean mop bucket according to label.

Apply generously to floor with mop, but no more than can be scrubbed and extracted in a timely manner. **Allow stripper to dwell (sit) on floor for 10-15 minutes.**

MACHINE SCRUB the floor slowly with an Ultra-Blue or High-Pro Black pad to loosen the acrylic finish. Step only on areas that have been scrubbed to minimize slipping. If floor feels slippery, more scrubbing is likely needed. Run the machine in two different directions. Turn machine on its edge (heel) on hard-to-remove areas. Apply water as needed to keep the floor/slurry wet.

EDGES, CORNERS, HARD-TO-REACH AREAS should be abraded using a Doodle Bug. Use scrapers or razor blades to remove heavy buildup.

WET VACUUM to extract all slurry.

INSPECT FLOOR for residual acrylic. If any buildup remains, reapply stripper and repeat machine scrub before proceeding.

CITRIC ACID:

Mix one 1-oz citric acid packet with 6 gallons of clean water and apply generously to floor.

Scrub floor with clean pad or screen.

WET VACUUM immediately after scrub to extract all water.

TEST PH to ensure floor surface is neutral before proceeding. If pH is low (6 or lower) or high (8 or higher), repeat citric acid scrub, wet vacuum, and mopping until pH is between 6 and 8.

MOP with clean water and clean mop head or clean microfiber mop.

FINISHING UP:

Remove and discard tape and walk-off matting.

Fan dry if desired to speed drying.

Affix new shoe covers.

FINAL MICROFIBER MOP:

Mop floor with a microfiber mop and clean water. Use a figure-8 motion, moving mop in 1 direction. Rinse mop in clean bucket every 50 ft² and change water as it becomes cloudy.

NOTE CONDITION OF FLOOR

If floor is severely damaged or heavily scratched, the T-Bar/Back-Roll process may not hide scratches and heavily worn areas. In this case, rolling process may be preferred.

YOU WILL NEED	
	Caution Tape & Wet Floor Signs
	Chemical-Resistant Tape
	Protective Walk-Off Matting
	Acrylic Wax Test Kit
	Neutral Cleaner (new floors can use plain water)
	Maroon Conditioning Pads (UDT-supplied or approved)
	Red Scrubbing or Blue Super Clean Pads
	Doodle Bug Holder
	PH Test Paper
	2 Clean String Mop Heads, Handles, & Bucket
	175 RPM Roto or Rectangular Orbital Floor Machine
	Wet Vacuum with Squeegee
	Fans/Air Movers
	Shoe Covers
	Microfiber Mop Frame & Pads
	Rags/Towels



Maroon Conditioning Pad

STAGE THE AREA with protective walk-off matting at doorway.

APPLY TAPE (and plastic where needed) to doorways, baseboards, and other surfaces needing protection.

TEST FOR ACRYLIC. If acrylic wax is present, refer to “Stripping Acrylic/Wax SOP.”

DILUTE NEUTRAL CLEANER in a clean mop bucket according to label. Plain water may be used for new floors.

Apply generously to floor with mop.

PLACE MAROON CONDITIONING PAD under a red or blue pad.

MACHINE SCRUB SLOWLY to both clean and micro-abrade the surface.

- Run the machine in two different directions.

Improperly abraded or contaminated floors may cause adhesion problems.

- Scrub no faster than 1,000 ft² per hour.

Flip pad after 100 ft² and discard after another 100 ft².

ABRADE EDGES, CORNERS, AND HARD-TO-REACH AREAS using a Doodle Bug. Apply maximum pressure under hand sanitizer dispensers and any areas that may be frequently wet.

WET VACUUM to extract all water and debris.

MOP with clean water and clean mop head or clean microfiber mop.

TEST PH to ensure floor surface is neutral before proceeding. If pH is low (6 or lower) or high (8 or higher), repeat mopping until pH is between 6 and 8.

INSPECT FLOOR to ensure entire surface has been adequately abraded. Floor should be dull (no visible shine).

FINISHING UP:

Remove and discard tape and walk-off matting.

Fan dry if desired to speed drying.

Affix shoe covers and hairnets.

Microfiber mop with clean water before applying EPIC. Rinse mop in clean bucket every 50 ft² and change water as it becomes cloudy.

NOTE CONDITION OF FLOOR

If floor is severely damaged or heavily scratched, the T-Bar/Back-Roll process may not hide scratches and heavily worn areas. In this case, rolling process may be preferred.

EPIC® Floor Preparation: Terrazzo/Concrete Clean & Seal

YOU WILL NEED	
	Caution Tape & Wet Floor Signs
	Chemical-Resistant Tape
	Protective Walk-Off Matting
	Acrylic Wax Test Kit
	Neutral Cleaner
	(new floors can use plain water)
	60-150 grit sand screens
	Red Scrubbing Pads
	Doodle Bug Holder
	PH Test Paper
	2 Clean String Mop Heads, Handles, & Bucket
	175 RPM Roto or Rectangular
	Orbital Floor Machine w/ Pad Driver
	Wet Vacuum with Squeegee
	Fans/Air Movers
	Shoe Covers
	Microfiber Mop Frame & Pads
	Rags/Towels

Follow these preparation steps before applying EPIC to existing hard-troweled or polished concrete where a grinding preparation process is not desired or needed. **Once prepared, the rolling method must be used when applying EPIC directly to concrete (see SOP: “EPIC Application: Rolling Method”).**

STAGE THE AREA with protective walk-off matting at doorway.

APPLY TAPE (and plastic where needed) to doorways, baseboards, and other surfaces needing protection.

IF ACRYLIC WAX IS PRESENT:

You must strip all acrylic wax (see SOP: “EPIC Floor Preparation: Stripping Wax”).

DILUTE NEUTRAL CLEANER OR DEGREASER in a clean mop bucket according to label. Plain water may be used for unsoiled floors. Apply generously to floor with mop.

PLACE BRUSH OR BLACK PAD under 175 RPM Roto to clean entire floor.

IF AN EXISTING POLISHED “GUARD” IS PRESENT:

Wet scrub floor with 60- to 150-grit screens placed under a clean pad.

ABRADE EDGES, CORNERS, AND HARD-TO-REACH AREAS using a Doodle Bug.

WET VACUUM to extract all water and debris.

MOP with clean water and clean mop head or clean microfiber mop.

ALLOW FLOOR TO DRY THOROUGHLY. Use fans to shorten dry time.

EPIC® Floor Preparation: Concrete Grind & Seal

YOU WILL NEED

Caution Tape
Planetary Concrete Grinders with Appropriate Tooling
Pulse Vacuum
Microfiber Mop Frame and Pads

When grinding concrete floors in preparation for EPIC, it is recommended to leave it at 200-grit resin level or higher. When applying EPIC to concrete that has been grinded below 200-grit resin, it is recommended to prime the concrete before applying EPIC.

GRIND THE FLOOR to remove all existing acrylic finishes, urethane coatings, guard products, silicate surface hardeners, curing membranes, paint, oil, and dirt. Failure to do so may result in diminished durability, loss of adhesion, varied gloss and inconsistent color enhancement. Grind slowly to minimize and remove deep scratch patterns.

IF APPLYING PRIMER, ALSO:

1/4" or 3/8" nap Rollers & Frame
Flat Flexible Squeegee

EITHER:

- Grind to a 200-grit resin level, **OR**
- Apply a primer coat of MC Standard Cure, MC-UV, or UltraSpartic 95 or 100 following these steps:

CHOOSE A PRIMER based on desired dry time, size of project, and experience.

PRIMER	POT LIFE	DRY TIME
MC Standard Cure	30 min	8-12 hours
MC-UV Epoxy	30 min	8-12 hours
UltraSpartic 85-EXT	30 min	6-8 hours
UltraSpartic 85-FAST	16 min	1-2 hours
UltraSpartic 100	17 min	4-6 hours

MIX PRIMER based on coverage rate of 400-600 square feet per gallon. Refer to Part A label and product TDS for instructions. Once mixed, reduce primer with xylene:

PRIMER	XYLENE TO ADD
MC Epoxies	5 – 10 %
UltraSpartic 85-EXT/FAST	0 %
UltraSpartic 100	10 – 20 %

IMMEDIATELY POUR MIX onto the floor.

SPREAD PRIMER by pushing a flat, stiff squeegee (or pulling a flat, flexible squeegee) at an angle.

BACK-ROLL PRIMER to eliminate streaks and ensure a consistent, thin film. Do not load the roller with primer. Keep rollers somewhat dry. Squeeze out excess coating from the rollers on a dry area of the floor as needed. Finish spreading and back-rolling each mix within the stated pot life.

ALLOW PRIMER TO DRY THOROUGHLY before mixing and applying EPIC.

YOU WILL NEED	
	Caution Tape & Wet Floor Signs
	Chemical-Resistant Tape
	Protective Walk-Off Matting
	Acrylic Wax Test Kit
	Neutral Cleaner (new floors can use plain water)
	80-150 grit sand screens
	Maroon Conditioning Pads (UDT-supplied or approved)
	Red Scrubbing or Blue Super Clean Pads
	Doodle Bug Holder
	PH Test Paper
	2 Clean String Mop Heads, Handles, & Bucket
	175 RPM Roto or Rectangular Orbital Floor Machine
	Wet Vacuum with Squeegee
	Fans/Air Movers

STAGE THE AREA with protective walk-off matting at doorway.

APPLY TAPE (and plastic where needed) to doorways, baseboards, and other surfaces needing protection.

TEST FOR ACRYLIC. If acrylic wax is present, refer to “Stripping Acrylic/Wax SOP.”

DILUTE NEUTRAL CLEANER in a clean mop bucket according to label. Plain water may be used for new floors. Apply generously to floor with mop.

IF PREPARING TILE-AND-GROUT, scrub floor with Mal-Grit brush to clean and abrade grout lines.

IF FLOOR IS TEXTURED, screens could cause damage. Skip ahead to using a maroon conditioning pad ONLY.

SELECT SCREEN. If existing EPIC is heavily scratched and/or has aggregate, use 80- or 100-grit screens; if not, use 120- or 150-grit screens.

PLACE SCREEN under a red or blue pad and machine scrub slowly to both clean and micro-abrade the surface. Run the machine in two different directions. Improperly abraded or contaminated floors may cause adhesion problems. Scrub no faster than 1,000 ft² per hour.

FLIP SCREEN after 200 ft² and discard after another 200 ft² (400 ft² total per screen/pad). Affix new screen and continue across floor, flipping and replacing screen as needed. (Example: a 2,000-ft² floor will require 5 screens.)

PLACE MAROON PAD under a red or blue pad and machine scrub slowly. Run the machine in two different directions. Improperly abraded or contaminated floors may cause adhesion problems. Scrub no faster than 1,000 ft² per hour.

FLIP MAROON PAD after 200 ft² and discard after another 200 ft² (400 ft² total per screen/pad), UNLESS a screen was not used, in which case flip maroon pad after 100 ft² and discard after another 100 ft² (200 ft² total per screen/pad). Affix new maroon pad and continue across floor, flipping and replacing maroon pad as needed.

ABRADE EDGES, CORNERS, AND HARD-TO-REACH AREAS using a Doodle Bug. Apply maximum pressure under hand sanitizer dispensers and any areas that may be frequently wet.

WET VACUUM to extract all water and debris.

MOP with clean water and clean mop head or clean microfiber mop.

TEST PH to ensure floor surface is neutral before proceeding. If pH is low (6 or lower) or high (8 or higher), repeat mopping until pH is between 6 and 8.

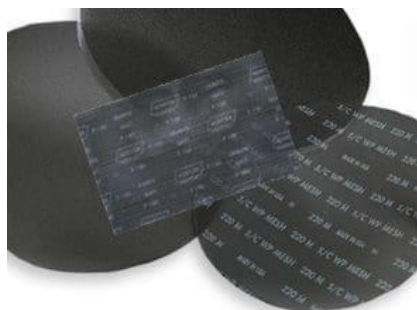
INSPECT FLOOR to ensure entire surface has been adequately abraded. Floor should be dull (no visible shine).

FINISHING UP:

Remove and discard tape and walk-off matting. Fan dry if desired to speed drying. Affix shoe covers and hairnets. Microfiber mop with clean water before applying EPIC. Rinse mop in clean bucket every 50 ft² and change water as it becomes cloudy.

NOTE CONDITION OF FLOOR

If floor is severely damaged or heavily scratched, the T-Bar/Back-Roll process may not hide scratches and heavily worn areas. In this case, rolling process may be preferred.



Sand Screens



Maroon Conditioning Pad

EPIC® Floor Preparation: Tile & Grout

POWER EQUIPMENT	
	175 RPM Roto or Rectangular Orbital Floor Machine
	Grit Brush & Pad Holder
	Wet Vacuum w/ Squeegee & Crevice Tool
OR	
	1,200 PSI Dual “Spinner” Machine w/ Turbo Head

YOU WILL ALSO NEED	
	Caution Tape & Wet Floor Signs
	Acrylic Stripper (if acrylic present)
	Tile Pro Acid
	Tile Pro Alkaline (if excessively dirty or greasy)
	Chemical-Resistant Tape
	Protective Walk-Off Matting
	Pump Sprayer(s)
	Clean String Mop Heads w/ Handles
	Mop Bucket
	pH Test Paper
	Maroon Conditioning Pads (UDT-supplied or approved)
	Doodle Bug Holder & Pads
	Fast-Setting Grout Repair Material
	Knee Pads and/or Kneeling Cart
	PPE: Rubber Gloves, Safety Glasses, Shoe Covers, & Respirator
	Fans / Air Movers
	Microfiber Mop Frame & Pads
	Rags / Towels

STAGE AREA with caution tape, floor signs, and protective walk-off matting at doorway. Apply tape (and plastic where needed) to doorways, baseboards, and any surface requiring protection.

CHECK FLOOR FOR ACRYLIC FINISH or sealer using acrylic stripper. If floor turns milky white: acrylic or sealer is present, perform EPIC FLOOR PREP – STRIPPING WAX. If solution remains clear, continue.

TEST WITH TILE PRO ACID. Using test dropper, test grout in multiple areas for presence of acrylic, sealer, or excessive grease. Grout should bubble immediately upon application. If grout does not bubble:

DEGREASE AND CLEAN. Mix degreaser according to manufacturer’s instructions. Spray or flood entire floor to saturate all areas. Allow degreaser to dwell (sit) for 10-15 minutes, ensuring floor remains wet.

USE HANDHELD BRUSH to degrease and clean wall edges, corners, and any areas that Roto or Spinner cannot reach.

SCRUB ENTIRE FLOOR with Roto (with Grit Brush) or Spinner. Grout lines must be completely clear of contaminants before continuing.

SQUEEGEE, WET VACUUM, & RINSE MOP to remove all dirty water and contaminants.

PREPARE GROUT USING TILE PRO ACID. Mix in pump sprayer per instructions and apply to entire floor surface. Let dwell (sit) 10-15 minutes, ensuring floor stays wet the entire time. Keep Tile Pro Acid away from carpet, fixtures, and stainless steel.

SCRUB WALL EDGES, corners, and hard-to-reach areas using handheld tile-and-grout brush.

SCRUB ENTIRE FLOOR with Roto (with Grit Brush) or Spinner to thoroughly clean grout. Keep Tile Pro Acid away from carpet, fixtures, and stainless steel.

SQUEEGEE, WET VACUUM, & RINSE MOP to remove all dirty water and contaminants.

IF NOT USING A SPINNER, rinse Grit Brush with clean water. Add clean water to floor and scrub entire floor a second time. Vacuum slurry to ensure floor is completely free of Tile Pro Acid residue and any contaminants.

TEST PH to ensure floor surface is neutral before proceeding. If pH is low (6 or lower) or high (8 or higher), repeat mopping until pH is between 6 and 8.

USE FANS to dry floor. Wipe up any puddles.

IF THERE IS GROUT MISSING, mix grout repair as instructed and patch. UDT Grout Colorant may be mixed in with grout repair product. Allow to dry and cure thoroughly before coating with EPIC. (Large areas of missing grout should be repaired with regular grout mixture and allowed to dry overnight before coloring and coating.)

APPLY UDT GROUT COLORANT (optional).

PERFORM FINAL CLEANING with microfiber flat mop.

MIX AND APPLY EPIC with Bond Promoter.

EPIC® Floor Preparation: UDT Grout Colorant

ADDITIONAL ITEMS YOU WILL NEED	
	Caution Tape & Wet Floor Signs
	Chemical-Resistant Tape
	Protective Walk-Off Matting
	Acrylic Wax Test Kit
	Neutral Cleaner (new floors can use plain water)
	Maroon Conditioning Pads (UDT-supplied or approved)
	Red Scrubbing or Blue Super Clean Pads
	Doodle Bug Holder
	PH Test Paper
	2 Clean String Mop Heads, Handles, & Bucket
	175 RPM Roto or Rectangular Orbital Floor Machine
	Wet Vacuum with Squeegee
	Fans/Air Movers

Unlike other grout colorant, UDT Grout Colorant can dry on the tile and still be easily removed, even when fully dried. For best results, finish with EPIC Tile & Grout Finish (Gloss or Matte).

Tile & Grout surfaces should be free of all contaminants, sealers, and finishes. Ensure that the preparation process with Tile Pro Acid is completed and the floor pH is neutral.

SELECT COLOR:



COVERAGE RATES estimated per 16 oz (for 1 gallon, multiply by 8)		
TILE SIZE	NARROW GROUT (1/8")	WIDE GROUT (1/2")
1" or 2"	50 ft ²	–
4"	320 ft ²	160 ft ²
6"	400 ft ²	200 ft ²
12"	500 ft ²	250 ft ²

FOR SMALL TILES (1" or 2"):

APPLY THE COLORANT to the entire floor using a roller and paint tray. Ensure that all grout is completely saturated and colored.

FOR LARGE TILES (greater than 2"):

CUT TIP OF GROUT BOTTLE to roughly match width of grout line.

IF THERE IS A COVE BASE, apply a line of tape across the top of the cove.

APPLY GROUT COLORANT directly into grout lines of the floor (and any cove base).

BRUSH GROUT COLORANT to ensure grout is completely saturated and colored. Remove excess colorant (any thick buildup or puddles) from tile surface.

ALLOW GROUT COLORANT TO DRY THOROUGHLY, roughly 30-45 minutes.

APPLY WATER TO FLOOR using a mop to saturate entire surface. Use trigger sprayer for small areas or cove bases.

SCRUB FLOOR with maroon pad directly under pad driver.

WET VACUUM SLURRY before grout colorant dries.

DAMP MOP FLOOR with a clean mop to remove any residual colorant from the tile surface.

ENSURE ALL COLORANT IS REMOVED from all tile surfaces. If any grout colorant remains, apply water and rescrub floor.

ALLOW FLOOR TO DRY THOROUGHLY. The floor and colorant should be visibly dry before starting EPIC application (approximately 30 minutes).

Environmental Conditions

YOU WILL NEED	
	Psychrometer
	Infrared Thermometer
	Moisture Meter

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 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 relative humidity (RH) is above 70%.

Adjustments to the temperature or relative humidity may need to be made prior to beginning the coating process. For the best results, use fans and/or dehumidifiers when applying coatings in moist or humid environments.

NOTE: 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 off in the evening hours. This can dramatically affect the temperature and humidity in the building.

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 COMPLETELY dry prior to starting the EPIC application process.

Concrete 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.

EPIC® Mixing Instructions

YOU WILL NEED

EPIC Components (all the same size, Standard or Contractor):
- Part A (Gloss or Matte)
- Part A-1 (4-Hour or 8-Hour)
- Part B (universal)
- Bond Promoter (for tile & grout, terrazzo, or concrete)
- Ultra Grip or Aggregate (<i>optional for additional abrasion or slip resistance</i>)
40-oz (or larger) Measuring Cup
Clean Water at Room Temperature
Stir Stick
Can Opener
Rubber Gloves
Safety Glasses
Timer, Clock, or Stopwatch
Trash Bag
Rags / Paper Towels

IF USING...	STANDARD	CONTRACTOR
Ultra Grip	1 bag	2 bags
Aggregate	1 scoop (1.5 oz)	2 scoops (3.0 oz)

COVERAGE RATES	
STANDARD KIT	CONTRACTOR KIT
T-Bar/Back-Roll 300-400 ft ²	T-Bar/Back-Roll 600-800 ft ²
Rolling Method 150-250 ft ²	Rolling Method 300-500 ft ²

POT LIFE	4-HOUR DRY TIME	8-HOUR DRY TIME
Gloss	45 minutes	90 minutes
Matte	30 minutes	60 minutes

Tip: write the time you start mixing on the stir stick and keep that stick in the bucket. This helps keep track of how much pot life remains.

Do not continue using product beyond stated pot life.

When mixing an additional batch of EPIC, do not combine with prior batch.

CHECK USE-BY DATES:

Ensure the “use-by” date on the lid of EPIC Part A is current (not expired).

CHECK PRODUCT TEMPERATURE:

Ensure all components are room temperature (59-77°F; 15-25°C) prior to starting.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Rubber gloves and safety glasses should be worn. Long sleeves are recommended. Refer to Safety Data Sheets (SDS) for additional information.

POSITION TIMER, clock, or stopwatch for use while mixing.

PREPARE WATER in measuring cup:

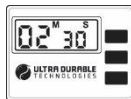
WATER	STANDARD KIT	CONTRACTOR KIT
Matte	16 oz	32 oz
Gloss	18 oz	36 oz



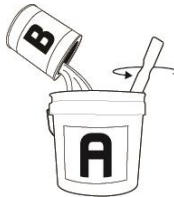
OPEN PART A and stir thoroughly with stir stick.



SHAKE PART A-1 and pour into Part A bucket. Mix by hand with stir stick for 15 seconds.



SET TIMER for 2 minutes and 30 seconds.



OPEN PART B, START TIMER. Slowly add B while stirring. Scrape all sides and bottom.



WHEN TIMER REACHES 2:30, slowly add water while stirring for 2 more minutes.



ADD BOND PROMOTER if coating ceramic, porcelain, or stone. Mix 30 seconds.



OPTIONAL: ADD ULTRA GRIP OR AGGREGATE and mix for 15 seconds. *Stir before every pour!*

EPIC® Application: T-Bar & Back-Roll Method

not for applying directly to concrete

YOU WILL NEED

EPIC High-Performance Floor Finish
Chemical-Resistant Tape
Microfiber Mop & Pads
Two Extension Poles
12" or 18" T-Bar Frame
12" or 18" T-Bar Refills
6.5" Edge Roller Frame
6.5" x 5/16" Nap Micro Plush Back-Rollers
18" Wide Boy Roller Frame
12" or 18" x 5/16" Nap Micro Plush Back-Rollers
2" Paint Brush
Paper Towels/Rags
Trash Bags
Walk-Off Matting
Wrench
"Wet Floor" Signs
Floor Protectors
Rubber Gloves, Safety Glasses, Shoe Covers
Fans and/or Dehumidifiers
Psychrometer and Infrared Thermometer
Two Technicians (minimum)

PREPARATION: Affix shoe covers. Perform final cleaning with a damp microfiber mop pad. Place protective walk-off matting at the doorway. Tape a trash bag to the floor at the planned exit to capture excess EPIC upon completion. Tape off doorways or other areas that should not be coated. Assemble the T-Bar and back-rollers. Put on gloves and glasses; long sleeves are recommended; refer to Safety Data Sheets (SDS) for additional information. Ensure the correct amount of EPIC is available to mix for the coverage required: Standard Kit 300-400 ft², Contractor Kit 600-800 ft².

MIX EPIC according to instructions.

APPLICATION

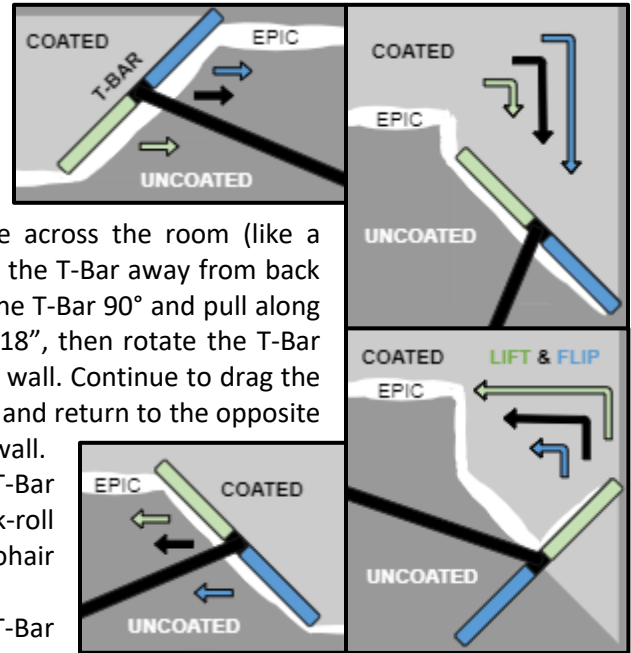
STIR EPIC and pour a line about 8" from the back wall, about 3-4" wide, from one side wall to the other.

T-BAR TECHNICIAN: Wet the T-Bar applicator in the poured line of EPIC. Drag or pull at a slight angle along poured line across the room (like a snowplow). EPIC should run off the edge of the T-Bar away from back wall. When approaching side walls, rotate the T-Bar 90° and pull along the side wall (away from back wall) about 18", then rotate the T-Bar 180° so the wet end is now toward the side wall. Continue to drag the T-Bar at a slight angle along the poured line and return to the opposite side wall. Avoid creating a puddle near any wall.

BACK-ROLLER TECHNICIAN: After the T-Bar Technician has made the first 2 passes, back-roll EPIC along the wall using a 6.5" Edge Mohair Back-Roller.

T-BAR TECHNICIAN: Continue dragging the T-Bar from wall to wall. Apply consistent downward pressure to leave an even amount of EPIC on the floor. Ensure the Back-Roller Technician can reach all areas (do not run the T-Bar more than 2 or 3 passes ahead).

BACK-ROLLER TECHNICIAN: Begin back-rolling with a 12" or 18" Mohair Back-Roller. Push back and forth with moderate pressure to remove all lines and streaks left by the T-Bar. Feather-roll into previous rolled areas by rolling just past previous roller lines and lifting slowly (like an airplane



taking off).

STIR AND POUR MORE EPIC as needed to ensure the puddle for the T-Bar never runs dry. Maintain a 3- to 4"-wide line. Stir before every pour.

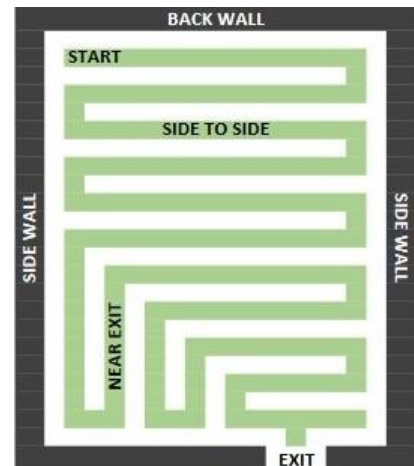
MIX ADDITIONAL EPIC as needed before running out to avoid leaving visible stop/start marks.

APPROACHING EXITS AND FINISHING CORNERS may require making an "L" shape along the side wall. Turn T-Bar 90 degrees to original line of EPIC and pull the T-Bar along the side wall toward the exit wall. Make 2-3 passes with the T-Bar along the side wall, then resume 2-3 passes on the original line. Alternate between lines until reaching the exit.

COAT AND BACK-ROLL BEHIND DOOR(S) before coating in front.

FINISHING UP: Use the T-Bar to pull excess EPIC past exit into a trash bag taped to the floor. Finish back-rolling by rolling straight forward. Place the wet end of the T-Bar and back-rollers into the trash bag (these may be used on other floors for a total use of up to 2 hours). Pull the tape and remove the bag. Isolate the area with tape across all doorways and place Wet Floor signs indicating the time and date that the floor will be dry and ready for use. Fans and/or dehumidifiers can speed drying. Keep doors open for airflow. Clamp the wrench onto the T-Bar refill and pull to remove. Clean the T-Bar and roller frames with isopropyl alcohol or dish soap and water. Allow excess EPIC to dry in the bucket overnight before discarding according to local regulations. Affix floor protectors to furniture or fixtures that may prematurely damage the floor.

Keep back-rollers as dry as possible and never roll into the puddle of EPIC. If back-rollers become saturated, squeeze excess on dry part of floor. Do not slide back-roller sideways. Replace rollers every 2 hours or if they become flattened. Back-Roller Technician should step back to allow T-Bar Technician to pass. Apply EPIC on hard-to-reach areas with 2" paint brush. Keep rag or paper towel handy to wipe EPIC from places it should not be.



YOU WILL NEED	
	EPIC High-Performance Floor Finish
	Chemical-Resistant Tape
	Microfiber Mop & Microfiber Mop Pads
	Two Extension Pôles
	6.5" Edge Roller Frame
	6.5" x 3/8" Nap Woven or Pro Performance Roller
	18" Wide Boy Roller Frame
	12" or 18" or Pro Performance Roller (3/8" Nap)
	Wide Boy Bucket and Wide Boy Bucket Liner
	2" Paint Brush
	Paper Towels/Rags
	Trash Bags
	Walk-Off Matting
	"Wet Floor" Signs
	Floor Protectors
	Rubber Gloves
	Safety Glasses
	Shoe Covers
	Fans and/or Dehumidifiers
	Psychrometer and Infrared Thermometer

STAGE THE AREA with protective walk-off matting at doorway. Tape off doorways or other areas that should not be coated.

ASSEMBLE ROLLERS.

PUT ON GLOVES AND GLASSES. Long sleeves are recommended. Refer to Safety Data Sheets (SDS) for additional information.

CONFIRM SQUARE FOOTAGE. Ensure the correct amount of EPIC is prepared to mix: Standard Kit 150-250, Contractor Kit 300-500.

MIX EPIC according to instructions.

Do not mix more than can be applied within maximum pot life: 4-Hour Dry Time, 30 minutes; 8-Hour Dry Time, 60 minutes.

PLACE LINER INSIDE WIDE BOY BUCKET and pour EPIC into liner.

LOAD 3/8" ROLLERS with EPIC.

APPLICATION

USE EDGE ROLLER to roll EPIC along the far wall and back 3-4 feet along each side wall.

USE 18" ROLLER and roll side-to-side (approximately 5 feet wide), then forward-and-back (approximately 3 feet deep) in a "W" motion to evenly spread EPIC (approximately 15 ft² at a time). Make your way from one wall to the other, then stop and return to the first wall (go from wall A to B, and then A to B again, etc).

USE EDGE ROLLER again and roll 3-4 feet further along the wall just prior to rolling with 18" roller.

USE 18" ROLLER again and roll side-to-side, then forward-and-back in a "W" motion. Feather-roll into previous rolled areas by rolling just past previous roller lines and lifting slowly (like an airplane taking off).

CONTINUE applying EPIC by working together with the edge roller and 18" roller. Replace rollers every 2 hours or if they become flattened.

USE PAINT BRUSH to apply EPIC in hard-to-reach areas.

MIX ADDITIONAL EPIC as needed. Mix more EPIC before running out to avoid delays in the rolling process.

FINISHING UP

ROLL ONTO TAPE to ensure a clean line at exit.

REMOVE ROLLERS and discard.

REMOVE TAPE before EPIC dries.

ISOLATE AREA and place Wet Floor signs.

USE FANS/DEHUMIDIFIERS to speed drying.

KEEP DOORS OPEN to provide airflow.

CLEAN ROLLER FRAMES with isopropyl alcohol or dish soap and water.

ALLOW EXCESS EPIC TO DRY in bucket overnight before discarding according to local regulations.

AFFIX FLOOR PROTECTORS to any furniture or fixture that may prematurely damage the floor.

Ultra Durable Technologies recommends the following cleaning procedures for floors that have been coated with EPIC®:

1. **Sweep or Dust Mop before any cleaning processes below** to minimize scratching and dulling from sand, dirt, and other debris.
2. **Remove any wet floor matting.** Allow it to dry thoroughly before replacing.



Daily Cleaning: Wet Mopping (Microfiber or Traditional Strip Mop)

Microfiber mopping minimizes chemical and water consumption and cross-contamination, making it a desirable method for daily cleaning. However, many microfibers do not do a satisfactory job of cleaning grout lines. Use long-nap microfibers to aid in soil removal from grout lines.

1. Fill a bucket with a chemical-free cleaning solution or plain warm or hot water. For heavily soiled floors, a small amount of neutral cleaner or degreaser may be used.
2. Soak clean, untreated mop heads in water solution.
3. Wring mops out with pressure to minimize any water marks or cloudiness from excess water.
4. Use a “figure 8” motion to clean the floor, always cleaning in one direction.
5. Rinse and wring mops out frequently (approximately every 50 square feet).
6. Change the water frequently or as it becomes cloudy.
7. Allow the floor to dry thoroughly.
8. Wipe the floor with a clean, dry mop or towel to remove any haze from detergents or soil.



Restorative Cleaning: Floor Scrubbing

Machine scrubbing is an approved cleaning method for large areas of flooring that have been coated with EPIC®. Machine scrubbing should be completed on an “as-needed” basis. If machine scrubbing is unavailable, a simple cleaning with a deck brush and water can be performed.

(continued...)

Walk-Behind or Riding Auto-Scrubber:

1. Fill the auto-scrubber with water or a chemical-free cleaning solution.
2. Assemble the floor-scrubbing machine with a microfiber scrub pad or soft-bristled brush.
3. Set the machine's head pressure to medium/light.
4. Turn on the water switch and begin scrubbing the floor according to the machine manufacturer's directions.

Slow-Speed 175-RPM Roto (Swing Machine):

1. Fill the roto-scrubber with water or a chemical-free cleaning solution.
For heavily soiled floors, a small amount of neutral cleaner or degreaser may be used.
2. If the machine does not have a water tank, generously mop the floor with water/solution.
3. Assemble the floor-scrubbing machine with a microfiber scrub pad or soft-bristled brush.
4. Scrub the wet floor to lift soil into suspension.
5. Remove the soiled solution with a squeegee vacuum, shop vacuum, or clean string mop.

Deck Brush (TILE & GROUT ONLY):

1. Fill pail with water and apply to floor.
2. Scrub with deck brush.
3. Remove soiled solution with a squeegee vacuum, shop vacuum, or a clean string mop.

Stain Removal

While EPIC® has very good chemical resistance, some mild stains could occur from iodine (surgical prep solution) or other red or blue dyes. A simple alcohol wipe solution is recommended for stain removal.

Floor Cleaning Tips

- Never dry scrub a floor without water or permanent damage may occur.
- Floors must be swept or dust-mopped prior to scrubbing.
- Use detergents such as degreasers or sanitizers only if required.
- Overuse of detergents can leave a residual film on the floor that hides the shine and may cause floors to be slippery when wet.
- Never use acrylic-enhancing cleaning chemicals or products designed to be buffed or burnished after application.
- Use UDT Microfiber Scrub Pads whenever possible. Launder Microfiber Scrub Pads frequently.
- White or red pads may be used if UDT Microfiber Scrub Pads are not available and must be flipped and replaced frequently.
- Make sure that pads are clean of dirt and debris prior to cleaning the floor.
- Inspect furniture for missing or damaged floor protectors regularly and replace as needed.
- UDT recommends the use of floor protectors to prolong the life of the finish.

Suggested Products

- **UDT Microfiber Scrub Pad** – Use in place of red or white pads to prolong life of EPIC®.
- **Red Scrubbing Pad**
- **White Scrubbing Pad**
- **Neutral Cleaner** – Mix according to manufacturer's instructions.
- **Floor Protectors** – Use on all furniture to avoid scratching and prolong life of EPIC®.

EPIC® Partial Mixing Instructions

Ultra Durable Technologies recommends the following measurements by weight in grams for mixing partial kits of EPIC®. It is strongly advised to use an electric scale that does not automatically shut off when idle!

EPIC® (Gloss or Matte)

(similar to Standard kit)

Rolling (Dip & Roll)	10-20 ft ²	100 ft ²	200 ft ²
T-Bar / Back-Roll	40 ft ²	200 ft ²	400 ft ²

Part A	100 g	300 g	600 g
Part A1	4 g	12 g	24 g
Part B	100 g	300 g	600 g
Water	107 g	321 g	642 g

Total EPIC®	311 g	933 g	1866 g
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EPIC® Tile & Grout (Gloss or Matte)

Rolling (Dip & Roll)	10-20 ft ²	100 ft ²	200 ft ²
T-Bar / Back-Roll	40 ft ²	200 ft ²	400 ft ²

Part A	100 g	300 g	600 g
Part A1	4 g	12 g	24 g
Part B	100 g	300 g	600 g
Water	107 g	321 g	642 g
Bond Promoter	9 g	27 g	54 g

Total EPIC®	320 g	960 g	1920 g
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This is to be used only as a basic reference for partial kit mixing.

If adding Ultra Grip, add the following percent of the total mixed weight:

Fine 5% / Medium 2.5% / Coarse 10%

Coverage rates will vary by floor type and application process.

If using the Rolling (Dip & Roll) method, an 18" x 3/8" nap roller will absorb about 50 ft² of product.

A 3/8" nap hotdog roller will absorb about 10 ft² of product.

EPIC® Floor Preparation: Removing EPIC®

YOU WILL NEED

Smart Strip Advanced Paint Remover
Chemical-Resistant Tape
Protective Walk-Off Matting
Ultra-Blue or High-Pro Black Stripping Pads or Stiff-Bristled Mal Grit Xtra Brush
60- to 100-Grit Round Screens (optional)
Doodle Bug Holder w/ Ultra-Blue or High-Pro Black Pads
Scrapers and/or Razor Blades
Large, Dull Scraper (Drywall Scraper)
Dust Mop or Broom
Dustpan or Small Shovel
18" Roller Frame
18" x 3/8" Nap Rollers
6.5" Edge Roller Frame
6.5" x 3/8" Nap Rollers
Chip Paint Brush
Threaded Extension Pole
pH Test Paper
3 Clean String Mop Heads w/ Handles
2 Mop Buckets
175 RPM Roto
Wet Vacuum w/ Squeegee
Fans / Air Movers
Shoe Covers
Traction Stripping Shoes
Rubber Gloves
Safety Glasses
Microfiber Mop Frame and Pads
Rags / Towels
Degreaser or Neutral Cleaner

SWEEP to remove all debris. Wet mop if needed.

STAGE THE AREA with protective walk-off matting at doorway. Apply tape (and plastic where needed) to doorways, baseboards, and other surfaces needing protection. Remove all movable fixtures. Place caution tape and wet floor signs. **PERSONAL PROTECTIVE EQUIPMENT (PPE)** should be worn. Affix shoe covers, traction stripping shoes, rubber gloves, and safety glasses. Refer to Safety Data Sheets (SDS) for additional information.

APPLY SMART STRIP REMOVER at a rate of 100 ft² per gallon. Do not dilute the remover. Pour the remover directly onto dry floor and spread evenly with 3/8" nap roller. Apply remover to all edges and corners, using 2" brush as necessary. Allow to dwell (sit) for 30-60 minutes.

SCRAPE UP REMOVER using dull-edged scraper to push remover into a pile. A small putty knife will work best around door frames and edges. Scoop all remover and residue into dustpan and deposit into pail for disposal.

FLOOD FLOOR with degreaser or neutral cleaner.

USE 175 RPM ROTO with Ultra-Blue Pad, Black Pad, or Mal-Grit Xtra Brush to scrub floor. Run machine in at least 2 different directions to ensure all acrylic is removed. Turn machine on its edge (heel) to increase pressure on stubborn and hard-to-remove areas.

SCRUB EDGES AGGRESSIVELY with Doodle-Bug pad and scraper.

WET VACUUM to remove all slurry.

INSPECT FLOOR once dry, visually and by feel, to ensure all finish has been removed. Use scraper to remove very small amounts of remaining finish. If large amount remains, reapply remover and repeat process.

IF URETHANE IS PROVING DIFFICULT TO REMOVE, and floor is NOT textured or very soft, a machine scrub with screens may be attempted: generously flood mop floor with clean water, place a 60- to 100-grit screen under a clean red or black pad, and use 175 RPM roto to scrub floor. Wet vacuum to remove all slurry. Inspect floor once dry. Use scraper to remove very small amounts of remaining finish. If a large amount remains, repeat machine scrub with screens until all remaining urethane has been removed.

MACHINE SCRUB WITH MAROON PADS once all urethane has been successfully removed. Generously flood mop floor with clean water. Place a new maroon conditioning pad under a clean red or black pad. Use 175 RPM roto to scrub-rinse floor.

WET VACUUM to remove all slurry.

TEST pH to ensure surface is neutral. If pH is high (8 or higher), repeat machine scrub with maroon pads and wet vacuum until pH is below 8.

REMOVE TAPE and discard.

USE FANS if desired to speed drying.

AFFIX SHOE COVERS to avoid contaminating floor.

USE A DAMP MICROFIBER MOP for final cleaning. Thoroughly rinse and agitate the microfiber mop pad in clean mop bucket frequently (every 50 ft² or as soon as it becomes cloudy).

NOTE CONDITION OF FLOOR. If floor is severely damaged or heavily scratched, the T-Bar/Back-Roll process may not hide scratches and heavily worn areas. In this case, rolling process may be preferred.

ALLOW FLOOR TO DRY THOROUGHLY (at least 24 hours) before proceeding with EPIC application.

Smart Strip Advanced Paint Remover

Store Locator:

<https://dumondglobal.com/pages/store-locator>

Matte or Gloss?

EPIC® is available in both Matte and Gloss:

Gloss level at 60°	
Gloss	90°
Matte	10°

Mixing Matte and Gloss together is not advised and will NOT result in Semi-Gloss. To achieve a Semi-Gloss or Satin look, begin with EPIC® Gloss and add Ultra Grip Medium or UDT Aggregate #120 or #240. Note that this will also add texture and slip resistance (see Traction/Slip Resistance below).

4-Hour or 8-Hour?

These refer to how long after application EPIC® will be dry to walk on. If the floor needs to be in use less than eight hours after EPIC® was applied, the 4-Hour version is necessary (but it must be allowed to dry for at least four hours).

However, another important difference is how long you can work with EPIC® during application (what is called "pot life"). For first-time users, we recommend using 8-Hour if possible, as it allows for the longest working time.

POT LIFE	4-Hour	8-Hour
Gloss	45 minutes	90 minutes
Matte	30 minutes	60 minutes

"Pot life" refers to the usable duration of mixed EPIC® in its container. Once EPIC® has been applied to an area, it can be back-rolled for up to three minutes, but after that, it should be left alone until dry.

Standard or Contractor?

EPIC® is available in two different kit sizes: Standard (approximately ½ gallon mixed) and Contractor (approximately 1 gallon mixed).

Coverage?

	APPLICATION METHOD	
	Rolling (Dip-&-Roll)	T-Bar/Back-Roll
Contractor Kit	300-500 square feet	600-800 square feet
Standard Kit	150-250 square feet	300-400 square feet

Coverage depends on the method of application and how thickly the coating is applied.

Because specifics can vary (such as porous concrete or VCT), it is recommended to have some extra EPIC® to ensure it does not run out during application.

Rolling (Dip-&-Roll) or T-Bar/Back-Roll?

There are two recommended methods for EPIC® application:

ROLLING (DIP-&-ROLL)	T-BAR/BACK-ROLL
Uses an 18" roller dipped into EPIC® and rolled onto the floor. This can be performed by one person and is recommended for newer users. The resulting coat is thicker, yielding less coverage.	Requires at least two installers, one using a T-Bar and at least one more using a back-roller. EPIC® is poured onto the floor, spread with the T-Bar, then back-rolled. The resulting coat is thinner, has some texture, and yields more coverage.

Traction/Slip Resistance?

Additives can be added to EPIC® during mixing to add traction/slip resistance and some extra durability.

Ultra Grip is typically recommended because it is lighter weight and easier to achieve a consistent application.

UDT Aggregates (#120 and #240) provide the most durability but settle more quickly; extra care must be taken to stir before each dip/pour, back-roll quickly and aggressively, and puddles must not be allowed to stand too long.

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Maintenance?

EPIC® does not need to be buffed or burnished. Microfiber mops and UDT Microfiber Scrub Pads will not abrade EPIC®, are efficient at removing dirt and scuffs, and are ideal for difficult-to-clean textured floors such as “wood look” LVT floors with three-dimensional grain patterns.

Stain & Chemical Resistance?

EPIC® is formulated to be extremely stain and chemical resistant. It stands up to common cleaning products, food and beverages, and motor oil and grease. EPIC® is durable enough to resist repeated exposure to liquid, gel, and foam alcohol hand sanitizers, as well as antiseptic surgical products such as Betadine and Povidone. Some surgical preparation chemicals can leave a mild mark which can be removed with a simple alcohol wipe solution.

Lifespan?

While individual circumstances vary, in general, a single coat of EPIC® lasts 3 to 5 years between recoats. Areas with frequent heavy foot traffic, moving equipment, and so on tend to wear down somewhat more quickly. On the other hand, areas with lighter traffic, regular cleaning, floor protectors on furniture, and optional grit additive can last much longer. Some real-world installations of EPIC® have held up for more than a decade!

Stripping / Removal?

EPIC® does not typically need to be removed prior to recoating. It can be recoated much easier and faster without the need for complete removal. When needed, EPIC® can be removed with a urethane paint remover; we recommend Smart Strip Advanced.

Expiration

The “Use By” date is on a sticker on top of the Parts A and A1 containers. If EPIC® Part A or A1 is expired, DO NOT use it. Attempting to use expired EPIC® will result in decreased sheen and overall performance. EPIC® Part B does not expire. Replacement EPIC® Part A and A1 can be ordered for use with existing Part B.

Peeling

Peeling issues are caused by improper floor preparation prior to the application of EPIC®. Standard Operating Procedures (SOP) have been created for all EPIC® processes including floor preparation. Always follow our procedures closely to ensure proper adhesion to the floor or substrate.

Dulling

Several things may cause EPIC® to have a dull result:

- Expired Product - Check the “use-by” date sticker on the EPIC® Part A lid. Do not use expired material. Contact your distributor for new Parts A and A-1 (Part B does not expire).
 - Exceeding the Pot Life - Once EPIC® is mixed, ensure it is applied within the stated pot life. 4-Hour dry time = 30-minute pot life. 8-Hour dry time = 60-minute pot life.
 - High Humidity/No Airflow - Relative Humidity (RH) must be less than 70% during application. If in doubt, or if it feels more humid than normal, be sure to verify the RH before application. You can also use fans or air movers, which can help EPIC® dry properly when there is no air movement or when the humidity readings are high.
 - Warm/Hot Storage (related to shelf life) - The proper storage temperature for EPIC® is 59-77° F (15-29° C). Applying EPIC® with material temperature (including the added water) outside of this range can cause dullness. If the product is too warm or too cold for too long, the gloss levels can decrease even before the expiration date(s).
 - Improper Mixing - Carefully follow mixture instructions including mixing times for each step. Do not combine the remainder of a previous kit with a newly-mixed kit.
 - Using Matte Part A instead of Gloss Part A - Double-check the EPIC® Part A label before mixing. Accidentally using the Matte formula instead of the Gloss formula will have a non-glossy effect.
-

Roller Lines & Marks

Be sure to use the proper UDT-supplied, high-quality roller covers recommended for the application method being used.

- The T-bar/back-roll method requires a 1/4" nap mohair back-roller or 5/16" micro-plush roller.
- The rolling method requires a 3/8" nap woven roller.

Tile & grout rolling method requires a 3/8" nap woven roller, and (if back-rolling) a 1/4" nap mohair or 5/16" micro-plush roller. When back-rolling or rolling, feather it out (the “airplane take-off” method of lifting the roller up at the end of the roll away from you).

Follow seams or lines in the flooring to help hide any potential roller marks.

Move quickly and do not roll into any areas that were applied more than 3 minutes earlier.

Do not apply a lot of pressure on the roller when feathering. Use just enough pressure to help knock the material down and remove any roller lines.

If you are using an additive like UDT Aggregate #240, you may need to roll aggressively to help spread the additive if it has pooled from sitting too long.

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Tile & Grout

The primary benefits of EPIC on tile & grout are odor control and cleanability for the grout lines. There are circumstances where EPIC also benefits the tile, such as increasing slip resistance. However, large format tiles (more than 12”) and smooth tiles benefit less from practically any coating, which will not be as hard as the tile itself. While coating grout lines only can be done, it is often a more challenging and intensive process than it’s worth.
