KRĒTUS

TRADITIONAL ESD SYSTEMS

installation guide

SAFETY, TESTING, AND WARRANTY

- Safety: Personal protective equipment and safety conditions must be considered before using any product. Review all relevant and current documentation including Safety Data Sheets (kretus.com/safety-data-sheets).
- Testing before installation: Test and look for any unknown site conditions and/or defects. To ensure desired results are achieved, the system should be tested in a small area on-site before full installation begins.
- Testing after installation: After completion of the installation, test according to the most current ANSI 20.20 standards as well as any testing required by the facility's ESD program.
- Warranty: For warranty to be upheld, Pre- and Post-Job Checklists (kretus.com/project-planning) must be completed.

MAINTENANCE AND CLEANING

For daily cleaning of fully cured system, use KRETUS® Coating Cleaner. For more information, review the Maintenance and Cleaning Guide available at kretus.com/project-planning.

Topping the system with a non-conductive wax or finish will render the ESD properties ineffective.

PRODUCT GUIDE: Application Times and Temperatures

NOTE: The Traditional ESD System is composed of a Base Coat System, the Conductive Primer, and an ESD Top Coat.

Before selecting your products and components: Review each product's Technical Data Sheet (kretus.com/technical-data-sheets) and consider the jobsite temperature, MVER, applicator's skill level, and time available for the installation. FC and FAST hardeners are recommended only for experienced installers or at low temperatures.

Base Coat System: ESDT TS, 20 Mils

PRODUCT LINE	TOP SHELF® EPOXY MVR	
APPLICATION	CR-RESIN | MVR-EZ	CR-RESIN | MVR-FC
APPLICATION TEMPERATURE	60–95°F, <90% RH	41–77°F, <90% RH
WORKING TIME	25–30 min	15 min
RECOAT TIME	8.5–24 hrs	3–16 hrs
RETURN TO SERVICE	24 hrs	5–6 hrs
FULL CURE	7 days	5 days

Base Coat System: ESDT TS, 20 Mils

PRODUCT LINE	TOP SHELF® EPOXY MVR	
APPLICATION	CR-RESIN | MVR-EZ	CR-RESIN | MVR-FC
APPLICATION TEMPERATURE	60–95°F, <90% RH	41–77°F, <90% RH
WORKING TIME	25–30 min	15 min
RECOAT TIME	8.5–24 hrs	3–16 hrs
RETURN TO SERVICE	24 hrs	5–6 hrs
FULL CURE	7 days	5 days

PRODUCT LINE	TOP SHELF® EPOXY		
APPLICATION	A-RESIN | EZ	A-RESIN | AP	A-RESIN | FAST
APPLICATION TEMPERATURE	60–110°F, <90% RH	60–95°F, <90% RH	41–85°F, <90% RH
WORKING TIME	40–50 min	25–35 min	15–20 min
RECOAT TIME	9–36 hrs	7.5–36 hrs	5.5–24 hrs
RETURN TO SERVICE	24 hrs	24 hrs	10 hrs
FULL CURE	7 days	7 days	5 days

Base Coat System: ESDT RC, 1/16”

PRODUCT LINE	UPC RC (ROLL COAT)		
APPLICATION	EZ	AP	FC
APPLICATION TEMPERATURE	60–90°F, 80% RH	40–80°F, <70% RH	40–80°F, <45% RH
WORKING TIME	30 min	20 min	10 min
RECOAT TIME	12 hrs	8 hrs	3 hrs
RETURN TO SERVICE	24–36 hrs	12–16 hrs	2–5 hrs
FULL CURE	7 days	5 days	3 days

Base Coat System: ESDT SL, 3/16”

PRODUCT LINE	UPC SL (SELF-LEVELER)		
APPLICATION	EZ	AP	FC
APPLICATION TEMPERATURE	60–90°F, 80% RH	40–80°F, <70% RH	40–80°F, <45% RH
WORKING TIME	30 min	20 min	10 min
RECOAT TIME	12 hrs	8 hrs	3 hrs
RETURN TO SERVICE	24–36 hrs	12–16 hrs	2–5 hrs
FULL CURE	7 days	5 days	3 days

Conductive Primer

PRODUCT LINE	WB EPOXY
APPLICATION	WB CONDUCTIVE PRIMER PART A + WB EPOXY PART B
APPLICATION TEMPERATURE	40–100°F, <90% RH
WORKING TIME	30 min
RECOAT TIME	2–24 hrs
RETURN TO SERVICE	16 hrs
FULL CURE	7 days

Traditional ESD Top Coats

PRODUCT LINE	TOP SHELF® EPOXY ESD			POLYASPARTIC 92 ESD		POLYURETHANE HP ESD
APPLICATION	A-RESIN | EZ	A-RESIN | AP	A-RESIN | FAST	EZ	FC	GLOSS
APPLICATION TEMPERATURE	60–110°F, <90% RH	60–95°F, <90% RH	41–85°F, <90% RH	<80°F, <55% RH	<80°F, <35% RH	60–90°F, <70% RH
WORKING TIME	40–50 min	25–35 min	15–20 min	15–25 min	15–20 min	20 min
RETURN TO SERVICE	24 hrs	24 hrs	10 hrs	24 hrs	24 hrs	12 hrs
FULL CURE	7 days	7 days	5 days	5 days	3 days	5 days

STORAGE, HANDLING, AND DISPOSAL

- Storage: Store materials in a cool (60-80°F), dry place out of direct sunlight. DO NOT allow water into materials unless instructed to do so.
- Handling: Safety Data Sheets must be always adhered to. No personnel may touch, relocate, or use materials without proper training. All materials are to be treated as dangerous substances without firsthand knowledge. Congregating, eating, smoking, or drinking of any kind is not allowed on or near materials.
- Disposal: Follow federal, local, and building requirements for waste disposal.

PRECAUTIONS AND LIMITATIONS

- Prime Coat: Where outgassing is suspected or prevalent, a prime coat may be required.
- UV Resistance: All epoxy ambers over time. If color stability is important, use a UV-resistant top coat.
- Complete samples and onsite mockups to ensure desired finish is achieved.
- DO NOT split kits.
- DO NOT let material puddle on floor—this will cause white spots to appear when coating cures.
- Adding Poly Colorant to any mixture may reduce working time by 5 minutes.
- All times recorded using 1-qt. sample at ambient temperature of 70°F and 50% humidity. Top Shelf® Epoxy recorded using A-Resin in 1-qt. sample.
- Coverage rates are for estimating purposes only. Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer.

SURFACE PREPARATION GUIDELINES

Contact KRETUS® Technical Representative if substrate is not listed below.

Concrete Substrate Must Be

- Clean: Remove all release agents, curing compounds, salts, efflorescence, grease, oil, dust, and other contaminates or particles that would hinder material's adhesion to substrate.
- Profiled: New concrete should be allowed to dry a minimum of 30 days. Mechanically prepare concrete to ICRI CSP 3. Adhere to ICRI (International Concrete Repair Institute) current standards.
- Sound: Clean and treat all moving and nonmoving joints and cracks.
- Grounded: A copper strip must be attached to the 110 V ground wire every 1,000 SF.

JOINT AND CRACK REPAIR

Coatings tend to pull away from termination points (anywhere concrete ends), joints, cracks, gutters, drains. Anchor joints may need to be added 6" from termination points. Joints and cracks may need to be expanded to 2x the width and 1x the depth.

When repairing joints, ensure that electrical continuity is maintained throughout the system by installing the ESD top coat over joints. Intermittent cracking formed in the topcoat may break some of the continuity over the joint. But if the crack runs the entire length of the joint completely separating adjacent slabs, the continuity will be interrupted.

To repair non-moving joints, fill with semi-rigid joint compound using a backer rod and coat with ESD top coat.

Consider grounding any moving (isolation and expansion) joints:

- In very low traffic areas: Use a conductive metallic grounding strap or conductive adhesive copper tape after the ESD top coat is applied. This type of grounding must be kept in a location where there is minimal to no traffic which could possibly break this bridged grounding strap.
- For those with lots of movement: Run a U-shaped grounding piece of conductive metallic strap or conductive adhesive copper tape through the entirety of the joint. Allow the tabs of the grounding piece to extend at least 1" from the joint onto adjacent slabs. Allow tabs to remain bare to receive only the ESD top coat.

MIXING GUIDELINES

Select a well-ventilated area outside of application zone and out of direct sunlight. Ideal mixing station is 4-by-4-feet or larger level surface protected by cardboard or plastic liner. For mixing station examples, review KRETUS® Mixing Station photo gallery available at kretus.com/project-planning.

Prepare Materials for Application

Organize and inspect products, equipment, and tools to minimize delays during installation.

Group together the components and tools needed for each coat (if required):

- prime coat
- base coat
- broadcast
- cap coat
- conductive primer
- ESD top coat

Examine the components for each coat individually:

- Anti-Slip: Make sure material is dry and undamaged. Moisture will cause material to clump. Clumps should be sifted before combining with the other components.
- Colorant: Check to see that color is correct and that batch numbers are the same. If different batch numbers, box (or mix) batches to keep coating consistent throughout application.
- ESD Additive: Check to see that batch numbers are the same. Make sure material is dry and undamaged. Moisture will cause material to clump.
- Part A's: Check to see that appearance is consistent throughout and that batch numbers are the same. If different batch numbers, box (or mix) batches to keep coating consistent throughout application.
- Part B's: Make sure there is no gelation or crystallization. If this occurs, contact your KRETUS® Technical Representative.
- Part C's: Make sure material is dry and undamaged. Moisture will cause material to clump. Clumps should be sifted before combining with the other components.
- Sand: Make sure material is dry and undamaged. Moisture will cause material to clump. Clumps should be sifted before combining with the other components.

Pre-Mix Components

- Before combining any components, use a low-RPM, low-torque drill and a Jiffler double-bladed mixer to pre-mix each component separately until the texture, color, and consistency is uniform.
- Use a separate mixer for each product to avoid cross-contamination.
- DO NOT pre-mix dry materials.

Mixing Drill

- Urethane Polymer Concrete: high-RPM, high-torque drill and Jiffler double-bladed mixer
- For all other coatings: low-RPM, low-torque drill and Jiffler double-bladed mixer

Mixing Tips and Precautions

- Follow the mixing instructions on the product's Technical Data Sheet (kretus.com/technical-data-sheets).
- All mixing vessels must be clean. Pour entire contents of Part A into vessel first before adding other components. Change or thoroughly clean mixing vessels every 2-5 batches.
- Ensure material is thoroughly mixed. Use a paint stick to scrape sides of and bottom of mixing vessel before pouring application.
- Buildup on bucket or transfer of buildup to a new batch affects the coating's overall appearance and may shorten a product's working time.
- Only combine products within the same product line. DO NOT mix one product's Part A with a different product's Part B or C. For example, only mix Polyurethane HP Part B with Polyurethane HP Part A Gloss or Satin.
- DO NOT mix more material than can be applied in the working time allotted.
- Mixing large batches will create more heat and can shorten the product's working time.
- DO NOT leave mixed material in mass. As soon as components are combined, the coating begins to cure and its temperature rises. If product is left in mass, the heat created may cause material to smoke or catch fire.
- DO NOT mix materials by hand.
- DO NOT mix or install material in confined space without proper ventilation.

DEW POINT CALCULATION

Adhere to the KRETUS® Dew Point Calculation Chart available at kretus.com/project-planning.

- To avoid blistering and delamination, the substrate and material must be a minimum of 5°F above the dew point. This temperature must be maintained throughout drying time.
- EXAMPLE: If the air temperature is 60°F and relative humidity is 60%, the Dew Point is 45°F. The temperature of the substrate must be ≥ 50°F (45 + 5) before a coating can be applied.

APPLICATION GUIDELINES

- DO NOT apply under direct sunlight. DO NOT install if inclement weather is forecasted during time allotted for installation.
- After mixing, pour material in even rows along the substrate. Spread material evenly using the appropriate tools to achieve the required thickness specified.
- Keep a wet edge while applying products. Wear spiked shoes when walking on material.

DISCLAIMER: The information contained in this document is intended for use by KRETUS®-qualified and -trained professionals. This is not a legally binding document and does not release the specifier from their responsibility to apply materials correctly under the specific conditions of the construction site and the intended results of the construction process. The most current valid standards for testing and installation, acknowledged rules of technology, as well as KRETUS® technical guidelines must be always adhered to. The steps given in this document and other mentioned documents are critical to the success of your project.

EQUIPMENT CHECKLIST

Safety

- ☐ KRETUS® Safety Data Sheets
- ☐ gloves
- ☐ hard hat
- ☐ knee pads
- ☐ respirator
- ☐ safety glasses
- ☐ _____
- ☐ _____
- ☐ _____

Mixing

- ☐ variable speed mixing drill
- ☐ mixing blades (Jiffler double-bladed mixer)
- ☐ paint mixing sticks
- ☐ measuring pails
- ☐ 1-, 2-, and 5-gallon pails (metal and/or plastic)
- ☐ masking/rosin paper
- ☐ cardboard, painter's plastic
- ☐ painter's tape
- ☐ duct tape
- ☐ cooler and ice
- ☐ _____
- ☐ _____

Clean-Up

- ☐ rags
- ☐ stiff-bristle broom(s)
- ☐ cordless electric leaf blower and extra batteries
- ☐ _____
- ☐ _____
- ☐ _____

Additional Tools/Products

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

This serves as a general guide and is not a comprehensive list.

Surface Preparation

- ☐ calcium chloride and pH test kit
- ☐ Wagner Rapid RH® test kit
- ☐ 10-gauge extension cords, 100'
- ☐ HEPA vacuum
- ☐ power source or generator
- ☐ Clarke 17" floor maintainer
- ☐ 17" sanding discs, 36 and 60 grit
- ☐ 17" sanding screens, 80 and 120 grit
- ☐ sanding/rubbing stones
- ☐ concrete grinding equipment
- ☐ diamond tooling to achieve CSP 3
- ☐ _____
- ☐ _____
- ☐ _____

Application

- ☐ chip brushes
- ☐ paint accessories—extension rods, frames, and pans
- ☐ non-shed rollers—spike, loop, and 3/8" nap
- ☐ Midwest Rake® squeegees
- ☐ trowel
- ☐ gauge rake and CAM set
- ☐ spiked shoes
- ☐ _____

KRETUS® PRODUCT CHECKLIST

- ☐ See KRETUS® System Action Guidelines
- ☐ Anti-Slip Bead 50/100
- ☐ ESD Additive
- ☐ Poly Colorant
- ☐ Polyaspartic 92 Low Odor (2 component)
- ☐ Polyurethane HP Gloss (2 component)
- ☐ Top Shelf® Epoxy Colorant
- ☐ Top Shelf® Epoxy (2 component)
- ☐ Urethane Polymer Concrete (3 component)
- ☐ WB Conductive Primer
- ☐ Solvent Cleaner
- ☐ Power Cleaner
- ☐ _____
- ☐ _____

SYSTEM ACTION GUIDELINE

BASE COAT SYSTEM: ESDT TS, 20 MILS

This serves as a general installation guide. Before you begin, review all relevant documents.

NOTE: **PRIME COAT:** If outgassing is suspected or prevalent or if concrete is in poor condition or very porous, a prime coat may be required.
MVER: If concrete MVER is greater than 25 pounds, contact a Kretus representative.
COVERAGE RATES: Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	1 MVR COAT	2 CONDUCTIVE PRIMER	3 ESD TOP COAT
KIT COMPONENTS	A (Top Shelf® Epoxy Part A, CR-Resin) + B (Top Shelf® Epoxy Part B, MVR-EZ or MVR-FC)	A (WB Conductive Primer Part A) + B (WB Epoxy Part B)	See options on page 11.
MIX RATIO	A:B = 2:1	A:B = 4:1	
MIXING INSTRUCTIONS	Add Part B to Part A and mix for up to 2 min or until color and texture are even.	Mix A for 1 minute or until color is uniform. Add B and mix for 1 minute. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	
METHOD/ TOOLS	Apply with 15-20 WFT-mil blade and non-shed 3/8" nap roller.	Apply with 5-7 WFT-mil blade and non-shed 3/8" nap roller.	
RECOAT TIME	See Product Guide. (Fast- and slow-cure hardeners available.)	See Product Guide.	
COVERAGE RATE	100 SF/gal	320-400 SF/gal	

SYSTEM ACTION GUIDELINE

BASE COAT SYSTEM: ESDT TS, 30 MILS

This serves as a general installation guide. Before you begin, review all relevant documents.

NOTE: **PRIME COAT:** If outgassing is suspected or prevalent or if concrete is in poor condition or very porous, a prime coat may be required.
MVER: If concrete MVER is greater than 25 pounds, contact a Kretus representative.
COVERAGE RATES: Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	1 MVR COAT	2 BASE COAT	2 CONDUCTIVE PRIMER	4 ESD TOP COAT
KIT COMPONENTS	A (Top Shelf® Epoxy Part A, CR-Resin) + B (Top Shelf® Epoxy Part B, MVR-EZ or MVR-FC)	A (Top Shelf® Epoxy Part A, A-Resin) + B (Top Shelf® Epoxy Part B)	A (WB Conductive Primer Part A) + B (WB Epoxy Part B)	See options on page 11.
MIX RATIO	A:B = 2:1	A:B = 2:1	A:B:= 4:1 **With water (W)** A:B:W = 4:1:1	
MIXING INSTRUCTIONS	Add Part B to Part A and mix for up to 2 min or until color and texture are even.	Add Part B to Part A and mix for up to 2 min or until color and texture are even.	Mix A for 1 minute or until color is uniform. Add B and mix for 1 minute. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	
METHOD/ TOOLS	Apply with 15-20 WFT-mil blade. Smooth application with non-shed 3/8" nap roller.	Apply with 15-20 WFT-mil blade. Smooth application with non-shed 3/8" nap roller.	Apply with 5-7 WFT-mil blade or non-shed 3/8" nap roller. Smooth application with non-shed 3/8" nap roller.	
RECOAT TIME	See Product Guide. (Fast- and slow-cure hardeners available.)	See Product Guide. (Fast- and slow-cure hardeners available.)	See Product Guide.	
COVERAGE RATE	100 SF/gal	100 SF/gal	320-400 SF/gal	

SYSTEM ACTION GUIDELINE

Traditional ESD Top Coat Options for ESDT TS Base Coat Systems

NOTE: **COVERAGE RATES:** Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	OPTION 1 TOP SHELF® EPOXY ESD	OPTION 2 POLYASPARTIC 92 ESD	OPTION 3 POLYURETHANE HP GLOSS ESD
KIT COMPONENTS	A (Top Shelf® Epoxy Part A, A-Resin) + C (Top Shelf® Epoxy Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Top Shelf® Epoxy Part B, EZ, AP, or FC)	A (Polyaspartic 92 Part A) + C (Poly Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Polyaspartic 92 Part B, EZ or FC)	A (Polyurethane HP Gloss Part A) + C (Poly Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Polyurethane HP Part B) + SC (Solvent Cleaner)
STANDARD KIT MIX RATIO	A:C:E:T:B = 1 gal:16 oz:1 gal:32 oz:1/2 gal	A:C:E:T:B = 1 gal:16 oz:1 gal:32 oz:1 gal	A:C:E:T:B:SC = 1 qt:16 oz:1 gal:32 oz:1 gal:1 qt
MIXING INSTRUCTIONS	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.
METHOD/ TOOLS	Apply with 5-7 WFT-mil blade. Smooth application with non-shed 3/8" nap roller.	Apply with 5-7 WFT-mil blade. Smooth application with non-shed 3/8" nap roller.	Apply with 5-7 WFT-mil blade. Smooth application with non-shed 3/8" nap roller.
RECOAT TIME	See Product Guide. (Fast- and slow-cure hardeners available.)	See Product Guide.	See Product Guide.
COVERAGE RATE	**Over TS Base Coat Systems:** 320 SF per single standard kit	**Over TS Base Coat Systems:** 320 SF per single standard kit	**Over TS Base Coat Systems:** 320 SF per single standard kit

SYSTEM ACTION GUIDELINE

BASE COAT SYSTEM: ESDT RC, 1/16"

This serves as a general installation guide. Before you begin, review all relevant documents.

NOTE: **UPC**= Urethane Polymer Concrete
PRIME COAT: If outgassing is suspected or prevalent or if concrete is in poor condition or very porous, a prime coat may be required.
MVER: If concrete MVER is greater than 15 pounds, use a Base Coat System that can withstand a higher moisture vapor emission rate.
COVERAGE RATES: Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	1 BASE COAT	2 BROADCAST	3 SAND & SWEEP	4 CONDUCTIVE PRIMER	5 ESD TOP COAT
KIT COMPONENTS	A (UPC RC/TT Part A) + B (UPC RC/TT Part B) + C (UPC RC Part C)	30-mesh clean, kiln-dried industrial sand	**Small areas:** pole sander **Large areas:** floor maintainer	A (WB Conductive Primer Part A) + B (WB Epoxy Part B)	See options on page 14.
STANDARD KIT MIX RATIO	A:B:C = 6 lbs:6 lbs:6 lbs	N/A	N/A	A:B:= 4:1 **With water (W)** A:B:W = 4:1:1	
MIXING INSTRUCTIONS	Slowly add C to A and mix for 2 min. Add B and mix for 30 seconds.	N/A	N/A	Mix A for 1 minute or until color is uniform. Add B and mix for 1 minute. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	
METHOD/ TOOLS	**Work in 500 sf increments:** 1. Apply coating with 15-20 WFT-mil blade. Use non-shed 3/8" nap roller to smooth. 2. If using a fast-cure hardener, wait 5 min. Otherwise, wait 10-15 min. 3. Broadcast sand into wet coating until refusal.		When coat is dry, sand any uneven surfaces. Vacuum and remove any loose material.	Apply with 5-7 WFT-mil blade or non-shed 3/8" nap roller. Smooth application with non-shed 3/8" nap roller.	
RECOAT TIME	See Product Guide. (Fast- and slow-cure hardeners available.)		When loose material is removed and surface is clean.	See Product Guide.	
COVERAGE RATE	150 SF/single standard kit	0.75 pound per SF	N/A	125 SF per single standard kit	

SYSTEM ACTION GUIDELINE

BASE COAT SYSTEM: ESDT SL, 3/16"

This serves as a general installation guide. Before you begin, review all relevant documents.

NOTE: **UPC**= Urethane Polymer Concrete

PRIME COAT: If outgassing is suspected or prevalent or if concrete is in poor condition or very porous, a prime coat may be required.

MVER: If MVER is greater than 25 pounds, contact a Kretus representative.

COVERAGE RATES: Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	1 BASE COAT	2 BROADCAST (Clear/Color)	3 SAND & SWEEP	4 CONDUCTIVE PRIMER	5 ESD TOP COAT
KIT COMPONENTS	A (UPC SL/MF Part A) + B (UPC SL/MF Part B) + C (UPC SL Part C)	30-mesh clean, kiln-dried industrial sand	**Small areas:** pole sander **Large areas:** floor maintainer	A (WB Conductive Primer Part A) + B (WB Epoxy Part B)	See options on page 14.
STANDARD KIT MIX RATIO	A:B:C = 8 lbs:8 lbs:25 lbs	N/A	N/A	A:B:= 4:1 **With water (W)** A:B:W = 4:1:1	
MIXING INSTRUCTIONS	Mix A with B for 30 sec. Slowly add C and mix for 2 min.	N/A	N/A	Mix A for 1 minute or until color is uniform. Add B and mix for 1 minute. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	
METHOD/ TOOLS	**Work in 500 sf increments:** 1. Apply coating with Size 2 Cam and gauge rake or with 1/2" W x 3/8" D V-notched squeegee. Use spiked or loop roller to smooth. 2. If using a fast-cure hardener, wait 5 min. Otherwise, wait 10-15 min. 3. Broadcast sand into wet coating until refusal.		When coat is dry, sand any uneven surfaces. Vacuum and remove any loose material.	Apply with 5-7 WFT-mil blade or non-shed 3/8" nap roller. Smooth application with non-shed 3/8" nap roller.	
RECOAT TIME	Fast- and slow-cure hardeners available. See Product Guide.		When loose material is removed and surface is clean.	See Product Guide.	
COVERAGE RATE	50 SF per single standard kit	1 pound per SF	N/A	125 SF per single standard kit	

SYSTEM ACTION GUIDELINE

Traditional ESD Top Coat Options for ESDT RC or SL Base Coat Systems

NOTE: COVERAGE RATES: Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields and are the responsibility of the installer. Coverage rates are for estimating purposes only.

	OPTION 1 TOP SHELF® EPOXY ESD	OPTION 2 POLYASPARTIC 92 ESD	OPTION 3 POLYURETHANE HP GLOSS ESD
KIT COMPONENTS	A (Top Shelf® Epoxy Part A, A-Resin) + C (Top Shelf® Epoxy Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Top Shelf® Epoxy Part B, EZ, AP, or FC)	A (Polyaspartic 92 Part A) + C (Poly Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Polyaspartic 92 Part B, EZ or FC)	A (Polyurethane HP Gloss Part A) + C (Poly Colorant) + E (ESD Additive) + T (50/50 blend of Anti-Slip Bead 50 and Bead 100) + B (Polyurethane HP Part B) + SC (Solvent Cleaner)
STANDARD KIT MIX RATIO	A:C:E:T:B = 1 gal:16 oz:1 gal:32 oz:1/2 gal	A:C:E:T:B = 1 gal:16 oz:1 gal:32 oz:1 gal	A:C:E:T:B:SC = 1 qt:16 oz:1 gal:32 oz:1 gal:1 qt
MIXING INSTRUCTIONS	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.	Combine A, C, E, and T. Mix until color and texture are uniform. Add B and mix for 1-2 minutes. Continue mixing during working time to ensure no particles settle and coating stays thoroughly mixed throughout application.
METHOD/ TOOLS	Apply with flat flexible blade. Smooth application with non-shed 3/8" nap roller.	Apply with flat flexible blade. Smooth application with non-shed 3/8" nap roller.	Apply with flat flexible blade. Smooth application with non-shed 3/8" nap roller.
RECOAT TIME	See Product Guide. (Fast- and slow-cure hardeners available.)	See Product Guide.	See Product Guide.
COVERAGE RATE	**Over Cap Coat:** 400 SF per single standard kit	**Over Cap Coat:** 400 SF per single standard kit	**Over Cap Coat:** 400 SF per single standard kit

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