General Overview
UPC (URETHANE POLYMER CONCRETE)

ON-SITE APPLICATION TESTING
To ensure desired results are achieved, test the system in a small area on site before beginning any project.

SURFACE PREPARATION
Test and look for any unknown site conditions and/or defects. For testing requirements, review KRETUS® Pre- and Post-Job Checklists available at kretus.com/project-planning.

Before installing any KRETUS® product, substrate must be

- Clean: Remove any and all contaminates.
- Profiled: Mechanically prepare surface to CSP 3-5 (adhere to International Concrete Repair Institute's current guide for Concrete Surface Profiles). Each project may require a different CSP.
- Sound: Treat all joints (terminations and transitions) and random cracks.

NOTE: UPC (Urethane Polymer Concrete) tends to pull away from free edges—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. Edges around drains and gutters may need a deeper slope.

MIXING GUIDE
Review mix ratios and application methods on KRETUS® System Action Guideline.

Review KRETUS® Mixing Station Guide for general handling, storage, and preparation procedures. Careful measurements and thorough mixing are essential for a proper cure. Observe all mixing procedures and guidelines to assure a controlled and thorough chemical transition to a high-strength solid.

- Mixing drill: Use a high-RPM, high-torque mixing drill with Jiffler double-bladed mixer.
- NOTE: Mix UPC products only when they have the same two-letter combination in the product name. For example, combine UPC RC Part C only with UPC RC/TT Part A and UPC RC/TT (AZ, EZ, or FC) Part B.
- Pre-mix liquid components before combining them to ensure the coating is uniform. Use a different mixing tool for each component to avoid cross-contamination.

UPC RC Mixing Instructions
Combine all parts as directed and mix thoroughly. Keep the coating well-mixed during application.
Total mixing time: 2-3 minutes.

- General: Mix Part A for 15 seconds. Slowly add Part C and mix for 2 minutes until fully blended. Add Part B and mix for 30 seconds.
- Adding colorant: Mix Part A and additive for 15 seconds. Slowly add Part C and mix for 2 minutes until fully blended. Add Part B and mix for 30 seconds.
- Adding accelerant, Anti-Slip, quartz, or sand: Mix Part A for 15 seconds. Slowly add Part C and mix for 2 minutes until fully blended. Add Part B and mix for 30 seconds. Add additive and mix for 30 seconds.

Mixing Instructions for UPC SL, MF, TT, WC, or VC
Combine all parts as directed and mix thoroughly. Keep the coating well-mixed during application.
Total mixing time: 2-3 minutes.

- General: Mix Part A for 15 seconds. Add Part B and mix for 30 seconds. Slowly add Part C and mix for 2 minutes until fully blended.

- If adding colorant: Mix Part A and additive for 15 seconds. Add Part B and mix for 30 seconds. Slowly add Part C and mix for 2 minutes until fully blended.
- If adding accelerant, Anti-Slip, quartz, or sand: Mix Part A for 15 seconds. Add Part B and mix for 30 seconds. Slowly add Part C and mix for 2 minutes until fully blended. Add additive and mix for 30 seconds.

SAFETY & CLEANUP

Review current Safety Data Sheet(s) and all relevant documentation before installing. Safety conditions and personal protective equipment must be considered before using any KRETUS® product.
For technical and safety data on UPC, go to kretus.com/urethane-polymer-concrete.

UPC RC APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base Coat, 8-12 mils	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• 8-12 WFT-mil blade • 3/8" non-shed nap roller	190 SF/KIT
Base Coat, 15-20 mils	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• 15-20 WFT-mil blade • 3/8" non-shed nap roller	150 SF/KIT
Base Coat, 25-30 mils	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• 25-30 WFT-mil blade • 3/8" non-shed nap roller	75 SF/KIT
Base Coat 1 (single or double broadcast), 8-12 mils, 1/4" color chip **Note:** In a single broadcast system, Base Coat 1 is called the "base coat." In a double broadcast system, it's the "first base coat."	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increments: 1. Apply with 8-12 WFT-mil blade and 3/8" non-shed nap roller. 2. Broadcast media into wet coating according to desired look. (Yields 0.15 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	225 SF/KIT
Base Coat 1 (single or double broadcast), 15-20 mils, 1/4" color chip	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increments: 1. Apply with 15-20 WFT-mil blade and 3/8" non-shed nap roller. 2. Broadcast media into wet coating according to desired look. (Yields 0.15 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	150 SF/KIT
Base Coat 1 (single or double broadcast), 15-20 mils, 30-mesh sand	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increment: 1. Apply with 15-20 WFT-mil blade and 3/8" non-shed nap roller. 2. Into wet coating, broadcast media to refusal. (Yields 0.75 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	150 SF/KIT
Base Coat 1 (single or double broadcast), 15-20 mils, 40-S quartz	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increment: 1. Apply with 15-20 WFT-mil blade and 3/8" non-shed nap roller. 2. Into wet coating, broadcast media to refusal. (Yields 0.75 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	150 SF/KIT

UPC RC APPLICATIONS (CONTINUED)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base Coat 1 (single or double broadcast), 25-30 mils, 30-mesh sand	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increment: 1. Apply with 25-30 WFT-mil blade and 3/8" non-shed nap roller. 2. Into wet coating, broadcast media to refusal. (Yields 0.75 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	75 SF/KIT
Base Coat 1 (single or double broadcast), 25-30 mils, 40-s quartz	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increment: 1. Apply with 25-30 WFT-mil blade and 3/8" non-shed nap roller. 2. Into wet coating, broadcast media to refusal. (Yields 0.75 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	75 SF/KIT
Base Coat 2 (double broadcast), over 30-mesh sand **Note:** Base Coat 2 is called the "second base coat" in a double broadcast system. Do not install over color/pigmented broadcast.	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	Work in 200-500 SF increment: 1. Apply with flat rigid blade and 3/8" non-shed nap roller. 2. Into wet coating, broadcast media to refusal. (Yields 0.25 lb/SF.) 3. When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	150 SF/KIT
Cap Coat, over 30-mesh sand **Note:** Do not install over color/pigmented broadcast.	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• flat rigid blade • 3/8" non-shed nap roller	150 SF/KIT
Prime Coat, 5-7 mils	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• 5-7 WFT-mil blade • 3/8" non-shed nap roller	400 SF/KIT
Wall Cove Prime & Cap Coats, 4-6" high	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: RC	A:B:C = 6 lbs:6 lbs:6 lbs	• paint brush • 3/8" non-shed nap roller	450 LF/KIT

UPC SL APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base Coat, 1/8" **Note:** UPC SL base coats may also be installed as Base Coat 1.	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: SL	A:B:C = 8 lbs:8 lbs:25 lbs	• 1/2"-wide x 3/8"-deep V-notched squeegee or size 2 CAM (1/8") and gauge rake • loop and spiked roller	50 SF/KIT
Base Coat, 3/16"	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: SL	A:B:C = 8 lbs:8 lbs:25 lbs	• trowel or size 3 CAM (3/16") and gauge rake • spiked roller	35 SF/KIT
Base Coat, 1/4"	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: SL	A:B:C = 8 lbs:8 lbs:25 lbs	• trowel or size 4 CAM (1/4") and gauge rake • spiked roller	25 SF/KIT

UPC MF APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base Coat, 1/8" **Note:** UPC MF base coats may also be installed as Base Coat 1.	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: MF	A:B:C = 8 lbs:8 lbs:40 lbs	• 1/2"-wide x 3/8"-deep V-notched squeegee or size 2 CAM (1/8") and gauge rake • loop and spiked roller	60 SF/KIT
Base Coat, 3/16"	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: MF	A:B:C = 8 lbs:8 lbs:40 lbs	• trowel or size 3 CAM (3/16") and gauge rake • spiked roller	40 SF/KIT
Base Coat, 1/4"	• Part A: SL/MF • Part B: SL/MF - EZ, AP, or FC • Part C: MF	A:B:C = 8 lbs:8 lbs:40 lbs	• trowel or size 4 CAM (1/4") and gauge rake • spiked roller	30 SF/KIT

UPC TT APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base Coat, 1/4” **Note:** UPC TT base coats may also be installed as Base Coat 1.	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: TT	A:B:C = 6 lbs:6 lbs:42 lbs	• trowel • spiked roller	22 SF/KIT
Base Coat, 3/8"	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: TT	A:B:C = 6 lbs:6 lbs:42 lbs	• trowel • spiked roller	14 SF/KIT
Base Coat, 3/4"	• Part A: RC/TT • Part B: RC/TT - EZ, AP, or FC • Part C: TT	A:B:C = 6 lbs:6 lbs:42 lbs	• trowel • spiked roller	10 SF/KIT

UPC WC APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Wall Cove Base Coat, 4" high x 3/16" nominal thickness x 1" radius	• Part A: WC/VC • Part B: WC/VC - EZ, AP, or FC • Part C: WC	A:B:C = 3 lbs:3 lbs:30 lbs	• 1"-radius cove trowel • margin or flat trowel • paint brush • 3/8" non-shed nap roller	60 LF/KIT
Wall Cove Base Coat, 6" high x 3/16" nominal thickness x 1" radius	• Part A: WC/VC • Part B: WC/VC - EZ, AP, or FC • Part C: WC	A:B:C = 3 lbs:3 lbs:30 lbs	• 1"-radius cove trowel • margin or flat trowel • paint brush • 3/8" non-shed nap roller	40 LF/KIT

UPC VC APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCTS REQUIRED	SINGLE KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Vertical Coat, 3-8 mils	• Part A: WC/VC • Part B: WC/VC - EZ, AP, or FC • Part C: VC	A:B:C = 3 lbs:3 lbs:3.5 lbs	• dip-and-roll method with 3/8” non-shed nap roller	400 SF/KIT

BROADCASTS, AGGREGATES, & ADDITIVES (IN ALPHABETICAL ORDER)

PRODUCT	USE	COVERAGE RATE*	MIX RATIO (BY VOLUME)
color chip, 1/4"	Broadcast over base coat to provide decorative finish.	0.15 lb/SF	Broadcast only—do not mix into coating.
color/pigmented quartz, 40-S	Broadcast over base coat to provide decorative finish and improve slip resistance.	• UPC RC: See rates in UPC RC Applications table. • UPC SL, MF, or TT: 1 lb/SF	Broadcast only—do not mix into coating.
KRETUS® Anti-Slip AO 24, 36, 60, or 80	Light broadcast into base coat to even out the appearance of a single broadcast. Note: Do NOT install over color broadcasts.	1.00 lb per 10 SF	Broadcast only—do not mix into coating.
KRETUS® Poly Accelerant	Speed working, recoat, and return-to-service times.	Based on application	• UPC RC, SL, or MF: 1-2 oz per single/standard kit • UPC TT, VC, or WC: 1 oz per single/standard kit
KRETUS® UPC Colorant	Pigment any UPC application.	Based on application	• 4 oz per single/standard kit
sand, 30-mesh	Broadcast over base coat to improve slip resistance.	• UPC RC: See rates in UPC RC Applications table. • UPC SL, MF, or TT: 1 lb/SF	Broadcast only—do not mix into coating.

*Coverage rates are shown for single standard kits. For double kits, multiply the single kit coverage rate by two. 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.