KRĒTUS

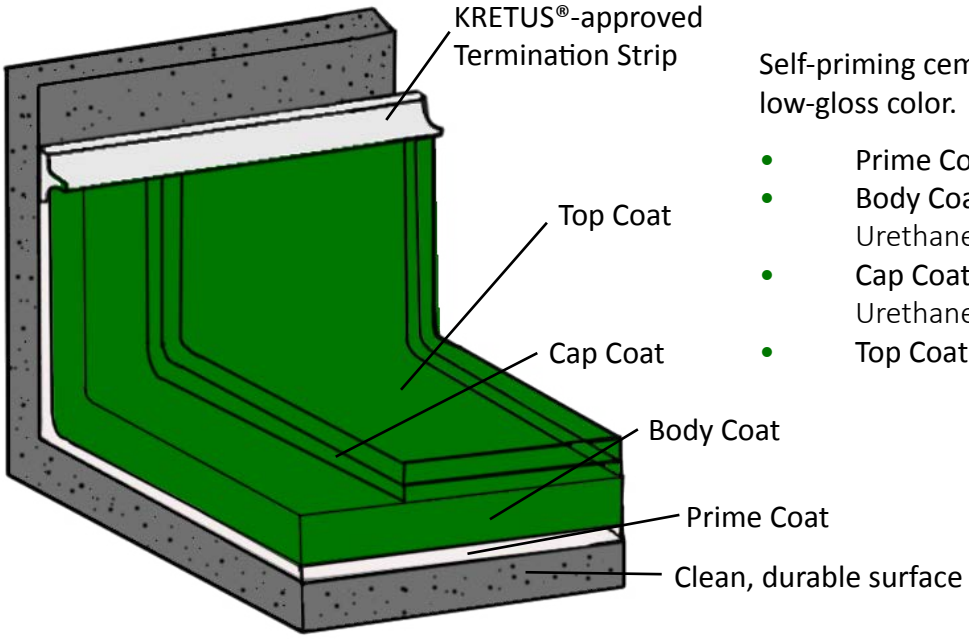
UPC COVE
INSTALLATION GUIDE

KRETUS® UPC COVE SYSTEMS

For a seamless look, pair **KRETUS® UPC Cove System** with UPC-based wall and floor coatings. Bonus: Whether you're looking for fast turnaround or long working time, the **KRETUS® UPC Cove System** has different hardeners to meet your needs.

For epoxy-based wall-cove coatings, see KRETUS® Epoxy Cove Installation Guide at kretus.com/epoxy-cove.

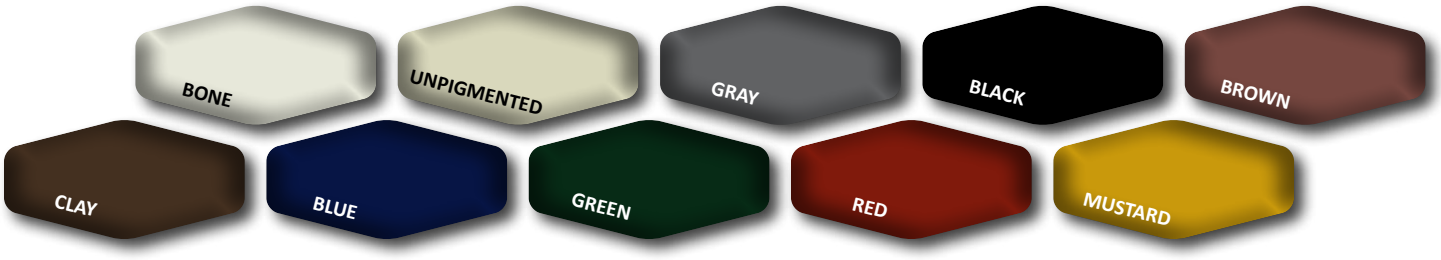
UPC COVE COLOR



Self-priming cementitious wall cove system in high- or low-gloss color.

- **Prime Coat:** Urethane Polymer Concrete RC
- **Body Coat:** Urethane Polymer Concrete WC + Urethane Polymer Concrete Colorant
- **Cap Coat:** Urethane Polymer Concrete RC + Urethane Polymer Concrete Colorant
- **Top Coat:** Based on KRETUS® flooring system

UPC COVE COLOR CHART



Colors in this document are approximate. Product selection, substrate, mix ratio, application technique, climate, and location may affect colorColors sold as Urethane Polymer Concrete Colorant. All Colorants must be mixed with Part A prior to mixing with Parts B or C. For custom or pre-blended color coating, fill out the KRETUS® Special Order form available at kretus.com/project-planning. Allow for additional lead time and fees.

USES

- wall-to-floor seamless coating for industrial, commercial, and residential spaces

ADVANTAGES

- **compliant:** meets USDA, FDA, SCAQMD, and VOC requirements
- **adhesion:** adheres to multiple substrates (concrete, wood, metal, non-glazed tiles)
- **anti-microbial:** protects against bacterial and fungal growth
- **cold cure:** can be applied at or above 40°F
- **ez clean:** requires little effort to maintain
- **green building:** eligible for LEED points, produced in California from partially recycled materials
- **low odor:** has zero to low VOC- no offensive odor during application and cure
- **low shine:** decreases glare and sheen
- **scratch resistant:** conceals minor scratches
- **thermal shock:** meets the demands of freeze-thaw cycles
- **waterproofing:** protects surfaces and underlying areas from water intrusion

LIMITATIONS

All Urethane Polymer Concrete will amber over time. If color stability is important, use KRETUS® Polyaspartic or Polyurethane coatings for cap and top coats.

ASTM C722 CHEMICAL AND STAIN RESISTANCE

Based on top coat. To review all test results, see the KRETUS® Chemical Resistance Guide available at kretus.com/project-planning.

PROPERTY/TEST METHOD	UPC COVE SYSTEMS
NOMINAL THICKNESS	1/16-1/4" with 1" radius @ 4-6" high
ABRASION RESISTANCE (ASTM D4060)	dependent on top coat
ADHESION TO CONCRETE, psi (ASTM D4541)	700
COMPRESSIVE MODULUS (force per unit area/change in volume per unit)	0.0004
COEFFICIENT OF LINEAR THERMAL EXPANSION (ASTM D696)	0.000005
COMPRESSIVE STRENGTH, psi (ASTM C109)	10,000
COMPRESSIVE STRENGTH, psi (ASTM C579)	12,500-12,900 | Resin only: 10,000
FLAMMABILITY (ASTM D635, E84 & E162)	Self-extinguishing | Flame Spread Index: Class A, 9.29 Smoke Deposit, mg/ms: 0.1
FLEXURAL MODULUS OF ELASTICITY (ASTM C580)	620,000 | Resin only: 380,000
FLEXURAL STRENGTH, psi (ASTM C580)	4,500-4,600 | Resin only: 10,000
HEAT RESISTANCE LIMITATION	140-200°F
IMPACT RESISTANCE (MIL-D-24613)	Pass: No chipping, no cracking | Indentation (24 hrs): 0.0008
OIL ABSORPTION (MIL-D-3134)	0%
PERM RATING, perms (ASTM E96)	0.1
SHORE D HARDNESS (ASTM D2240)	78
TENSILE STRENGTH, psi (ASTM C307)	4000
THERMAL SHOCK OR STABILITY (ASTM C531 Part 4.05)	1,100 | Resin only: 4,000
WATER ABSORPTION (ASTM D570)	0%

MAINTENANCE AND CLEANING

Based on top coat. For information on proper care, see the Maintenance and Cleaning Guide available at kretus.com/project-planning.

PRODUCT GUIDE

Most KRETUS® 2- and 3-component products have fast- and slow-cure hardeners. Before making a selection, consider jobsite temperature, MVER, applicator's skill level, and time available for installation. FC and FAST hardeners are recommended only for experienced installers or at low temperatures.

Product	URETHANE POLYMER CONCRETE (3 COMPONENT)		
	EZ (Easy Application)	AP (All Purpose)	FC (Fast Cure)
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

All times recorded using 1-qt. sample at ambient temperature of 70°F and 50% humidity.

STORAGE AND HANDLING

Store materials in a cool dry place out of direct sunlight. DO NOT mix materials that are warmer than 85°F. Sealed, unopened Parts A and B can be placed in an ice bath to bring the temperature of the material down. DO NOT place any other products in ice bath. DO NOT let water into material.

SAFETY

Review current Safety Data Sheet(s) and all relevant KRETUS® documentation. Safety conditions and personal protective equipment must be considered before mixing or installing any KRETUS® product.

IDEAL CONDITIONS

Apply material when temperature is decreasing—adhere to the KRETUS® Dew Point Calculation Chart available at kretus.com/project-planning. Do not apply under direct sunlight. Do not install if rain is forecasted during time allotted for installation.

- ↑ higher temperature and/or humidity = ↓ reduced working times
- ↓ lower temperature and/or humidity = ↑ increased working times

TESTING AND WARRANTY

Before you begin installation, review Pre- and Post-Job Checklists available at kretus.com/project-planning. Test and look for any unknown site conditions and/or defects.

ON-SITE APPLICATION TESTING

To ensure desired results are achieved, the system should be tested in a small area on site.

SURFACE PREPARATION

Before installing KRETUS® System, substrate must be

- Clean: Remove any and all contaminates.

- Profiled: To help with adhesion, sanding may be required.
- Sound: Remove and replace non-durable surfaces. Install KRETUS®-approved termination strip before cove application.

NOTE: If water gets behind the cove, it will crack. Make sure that all termination points are sealed with KRETUS®-approved caulk or epoxy.

MIXING STATION GENERAL OVERVIEW

Organize and inspect products, equipment, and tools to minimize delays during installation. Photos of ideal mixing station are available at kretus.com/project-planning.

Select a well-ventilated area outside of application zone and out of direct sunlight. Mixing station is ideally a 4-by-4-feet or larger level surface protected by cardboard or plastic liner.

DO NOT mix or install material in confined space without proper ventilation.

Check and Compare Like Materials

Separate by type: Urethane Polymer Concrete RC/TT Part A, RC/TT Part B (EZ, AP, or FC), RC Part C, WC/VC Part A, WC/VC Part B (EZ, AP, or FC), WC Part C, and Colorants.

- Parts A: If pigmented, check to see that color is correct and that batch numbers are the same. If different batch numbers, box (or mix) batches to keep color consistent throughout application. If unpigmented, make sure product is clear.
- Parts B: Make sure product has no gelation or crystallization. If this occurs, contact KRETUS® distributor.
- Parts C: Make sure material is dry and undamaged. Moisture will cause material to clump. Clumps should be sifted prior to mixing or discarded.
- Colorants: Check to see that color is correct and that batch numbers are the same. If different batch numbers, box (or mix) batches to keep color consistent throughout application.

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 Urethane Polymer Concrete RC Part C with Urethane Polymer Concrete RC/TT Part A and Urethane Polymer Concrete RC/TT Part B EZ, AP, or FC.

GENERAL MIXING GUIDE

- Use a high-RPM, high-torque drill and Jiffler double-bladed mixer.
- DO NOT mix more material than can be used in 10-20 min.

DO NOT mix materials by hand.

Premeasure components before combining. Mix materials in clean buckets. To ensure material is uniform and thoroughly mixed, use paint stick to scrape sides and bottom of mixture. Change mix buckets every 2-5 batches. Use all material immediately after mix. Buildup on bucket or transfer of buildup to new batch can shorten product's working time.

DO NOT mix more product than can be applied in the working time allotted. KRETUS® recommends mixing cove applications in small batches. DO NOT leave mixed material in mass. REMEMBER more material = more heat. Mixing large batches will shorten a product's working time.

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
- ☐ painter's plastic, cardboard
- ☐ 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

- ☐ cove termination strip
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

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
- ☐ hand stone/pole sander/abrasive wheel
- ☐ _____
- ☐ _____
- ☐ _____

Application

- ☐ chip brushes
- ☐ paint accessories—extension rods, frames, and pans
- ☐ roll covers, 3/8" nap, non-shed (18", 9", 6")
- ☐ trowel—margin, flat, 1"-radius cove
- ☐ spiked shoes
- ☐ _____
- ☐ _____
- ☐ _____

KRETUS® PRODUCT CHECKLIST

- ☐ Urethane Polymer Concrete (3 component)
- ☐ Urethane Polymer Concrete Colorant(s)
- ☐ Solvent Cleaner
- ☐ Power Cleaner
- ☐ _____
- ☐ _____
- ☐ _____

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

SYSTEM ACTION GUIDELINE

UPC COVE, 4-6" high with 1"-radius cove trowel @ 3/16" nominal thickness

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

NOTE: Install KRETUS®-approved termination strip before cove application. For all applications, do not mix more than can be used in 10-20 min.

	1 PRIME COAT (Unpigmented)	2 BODY COAT (Color)	3 SAND & SWEEP	4 CAP COAT (Color)	5 TOP COAT
PRODUCT	A (Urethane Polymer Concrete RC/TT Part A) + B (Urethane Polymer Concrete RC/TT Part B) + C (Urethane Polymer Concrete RC Part C)	A (Urethane Polymer Concrete WC/VC Part A) + UCC (Urethane Polymer Concrete Colorant) + B (Urethane Polymer Concrete WC/VC Part B) + C (Urethane Polymer Concrete WC Part C)	**Small areas:** hand stone or pole sander **Large areas:** floor maintainer	A (Urethane Polymer Concrete RC/TT Part A) + UCC (Urethane Polymer Concrete Colorant) + B (Urethane Polymer Concrete RC/TT Part B) + C (Urethane Polymer Concrete RC Part C)	See flooring application for product, mix ratio, and mixing instructions. Do not use Anti-Slip texture in cove application. Apply Top Coat to cove with brush and smooth with non-shed 3/8" nap roller. While cove application is still wet, apply Top Coat to floor for a seamless finish.
STANDARD KIT MIX RATIO	A:B:C = 6 lbs:6 lbs:6 lbs	A:UCC:B:C = 3 lbs:4 oz:3 lbs:30 lbs	N/A	A:UCC:B:C = 6 lbs:4 oz:6 lbs:6 lbs	
MIXING INSTRUCTIONS	Mix A 15 sec. Add B and mix for 30 sec. Slowly add C and mix for 2 min.	Mix A and UCC for 15 sec. Add B and mix for 30 sec. Slowly add C and mix for 2 min.	N/A	See Mixing Instructions under Step 2 (Body Coat).	
METHOD/TOOLS	**Working in sections that can be completed in 20 min:** 1. Pour thin line of RC along cove. Brush RC over cove, about halfway onto tape. 2. Apply WC directly on top of wet RC with flat, margin, and 1"-radius cove trowe **NOTE:** If RC becomes dry, reapply before applying WC. If trowel becomes sticky lightly mist tool with KRETUS® Solvent Cleaner (SC). Use brush and SC to smooth edges.		When coat is dry, sand any uneven surfaces. Sweep and vacuum loose media.	1. Pour RC in thin line along cove. Brush RC over cove. 2. Smooth with 3/8" non-shed nap roller.	
RECOAT TIME	Install body coat immediately after prime coat.	Allow material to cure for 20 min before tape removal.	When loose material is removed and surface is clean.	Wait 2.5-3 hrs before installing floor system.	
COVERAGE RATE	200-250 lft/kit	4" height: 30 lft/kit @ 1/8" thick 6" height: 20 lft/kit @ 1/8" thick	N/A	200-250 lft/kit	

NOTE: 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.

LIKE US ON SOCIAL MEDIA AND FOLLOW US ONLINE!

KRETUS GROUP® | kretus.com

1055 W. Struck Ave., Orange, CA 92867