



Product Guide

URETHANE POLYMER CONCRETE

DESCRIPTION

KRETUS® UPC (Urethane Polymer Concrete) is a low odor, 100% solids, 3-component system with mix-and-match versatility. Designed to withstand hot and cold industrial pressure washing, high abrasion, extreme temperatures, and aggressive chemical and thermal attacks, this self-priming cementitious urethane outperforms and outlasts epoxy, tile, VCT, concrete, and urethane-sand under extreme industrial conditions.

SYSTEM APPLICATIONS

- primer
- cold storage to -40°F
- seamless moisture mitigation
- slurry, mortar, and decorative coats
- industrial, healthcare, commercial, government, institution, and residential areas

ADVANTAGES

- **compliance:** USDA, FDA, EPA, SCAQMD, and VOC compliant
- **high-traffic tolerant:** stands up to vehicle traffic and continuous pedestrian traffic
- **adhesion:** adheres to multiple substrates (concrete, wood, metal, non-glazed tiles)
- **moisture vapor resistant:** reduces moisture vapor emissions
- **low shine:** decreases glare and sheen
- **impact resistant:** fortifies against damage from dropped tools
- **scratch resistant:** conceals minor scratches
- **waterproofing:** protects surfaces and underlying areas from water intrusion
- **green building:** eligible for LEED points, produced in California from partially recycled materials
- **anti-microbial:** protects against bacterial and fungal growth
- **ez clean:** requires little effort to maintain (see Maintenance & Cleaning Guide at kretus.com/project-planning.)
- **thermal shock:** meets the demands of freeze-thaw cycles
- **chemical resistant:** resists chemical spills and cleaners (see Chemical Resistance Chart kretus.com/project-planning.)

LIMITATIONS

- UPC will amber over time. If color stability is important, use Urethane Polymer Concrete UV, Polyaspartic or Polyurethane as a top coat.
- Where outgassing is suspected or prevalent, a Urethane Polymer Concrete RC prime coat may be required.

FINISH

- matte, cream (unpigmented)
- texture based on application
- **Color & decorative options:** See Urethane Polymer Concrete Color Chart at kretus.com/color-charts.
- **Increased slip resistance:** Find Anti-Slip samples at kretus.com/anti-slip.
- **Custom orders:** See KRETUS® Special Order form at kretus.com/project-planning.



PRODUCT DATA

For steps 1-3, pick products with the same 2-letter combination in the product name.

Example: If you choose RC for Part C, select a Part B that begins with RC/TT and Part A UPC RC/TT.

1. Choose Part C based on the type of application needed.

PART C	APPLICATION	MIX RATIO	MVER (ASTM F1869)	RH (ASTM F2170)
RC	5-30 mil roll coat	A:B:C = 6 lbs A:6 lbs:6 lbs	15 lbs	<99%
SL	1/8-1/4" self-leveler • good flow • good compressive strength	A:B:C = 8 lbs:8 lbs:25 lbs	25 lbs	<99%
MF	1/8-1/4" medium-fill self-leveler/slurry • low viscosity • higher compressive strength than SL	A:B:C = 8 lbs:8 lbs:40 lbs	25 lbs	<99%
TT	1/4-4" tight trowel, extended with quartz or pea gravel • highest compressive strength	A:B:C = 6 lbs:6 lbs:42 lbs	25 lbs	<99%
VC	3-8 mil vertical coat	A:B:C = 3 lbs:3 lbs:3.5 lbs	n/a	n/a
WC	1-10" wall cove	A:B:C = 3 lbs:3 lbs:30 lbs	n/a	n/a

2. Choose Part B based on climate (temperature and humidity), deadline/schedule, and applicator's skill level.

PART B	DESCRIPTION/SKILL LEVEL	RECOMMENDED APPLICATION TEMPERATURE	WORKING TIME	RECOAT TIME	RETURN TO SERVICE	FULL CURE
RC/TT EZ	• Easy to apply, long working time. • For beginner installers and at high temperatures/humidity.	60-90°F<80% RH	30 min	12 hrs	24-36 hrs	7 days
SL/MF EZ						
WC/VC EZ						
RC/TT AP	• Average working and cure times. • For experienced installers and at low- to mid-temperatures humidity.	40-80°F<70% RH	20 min	8 hrs	12-16 hrs	5 days
SL/MF AP						
WC/VC AP						
RC/TT FC	• Fast cure. • For expert installers and at low- to mid-temperatures and low humidity.	40-80°F<45% RH	10 min	3 hrs	2-5 hrs	3 days
SL/MF FC						
WC/VC FC						

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

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

3. Choose the Part A with the same 2-letter combination as Part C. For example, if you chose UPC RC, select UPC RC/TT.

PART A
RC/TT
SL/MF
WC/VC

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, and KRETUS® technical guidelines must be adhered to at all times. The steps given in this document and other mentioned documents are critical to the success of your project.