KRĒTUS

General Overview

ACRYLIC POLYMER CONCRETE

DESCRIPTION
KRETUS® Acrylic Polymer Concrete is a durable, cost-effective, and low-maintenance system ideal for new construction and restoration projects. KRETUS® Acrylic Admix is a high-solids acrylic co-polymer hybrid that will increase the strength, flexibility, and adhesion of cementitious systems.

SAFETY AND 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.

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

Before beginning installation, substrate must be
- **Clean:** Remove any and all contaminates.
- **Profiled:** Mechanically prepare concrete surface to CSP 2–5 (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 with manufacturer-approved products.

ON-SITE APPLICATION TESTING
To ensure desired results are achieved, KRETUS® highly recommends that the system be tested in a small area on site before beginning any project.

MIXING GUIDE
Review KRETUS® Mixing Station Guide for general handling, storage, and preparation procedures. If installing KRETUS® product as part of a larger project: Review mix ratios and application methods on KRETUS® System Action Guideline. Careful measurements and thorough mixing are essential for a proper cure.

Mixing drill: Use a high-RPM, high-torque mixing drill with Jiffler double-bladed mixer.

Mixing Instructions:
- Mix Part A and slowly add Part B. Total mixing time = 2 minutes.
- If adding KRETUS® Fast or Slow Control or WB Colorant: Mix Part A and additive for 30 seconds. Continue mixing and slowly add Part B. Total mixing time = 2 minutes.

NOTE:
- When surrounding temperature is over 85°F, add KRETUS® Slow Control.
- When surrounding temperature is under 60°F, add KRETUS® Fast Control.

ACRYLIC POLYMER CONCRETE APPLICATION
NOTES:

- Over concrete: Before installing Acrylic Polymer Concrete, install KRETUS® Acrylic Primer, Top Shelf® Epoxy with Industrial Sand, or Urethane Polymer Concrete with Industrial Sand.
- Over wood: Before installing Acrylic Polymer Concrete, install metal lath.
- Coverage rates for one 50-lb. bag of concrete. Coverage rates 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.

APPLICATION MINIMUM AND MAXIMUM THICKNESS

Product	Min.	Max.
Acrylic Admix + Base Coat	1/8"	2"
Acrylic Admix + Texture 2.0	1/16"	1"
Acrylic Admix + Texture 3.0	1/32"	1"

APPLICATION COVERAGE RATES

1/32"	1/16"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1.5"	2"
180 sf	90 sf	48 sf	24 sf	16 sf	12 sf	8 sf	6 sf	4 sf	3 sf

GENERAL APPLICATION

Application	Methods/Tools	Product	Mix Ratio	Coverage Rate
Sloping	• trowel or flat flexible/rigid blade	Part A: Acrylic Admix Part B: any Acrylic Polymer Part B	A:B= 3 qts.:50 lbs.	See table above for coverage rates based on thickness
Base Coat over Metal Lath	• trowel or flat flexible/rigid blade		A:B= 1-1.25 gal.:50 lbs.	
Screed/Skim Coat Over Fiberglass				
Patching (spawls)	• trowel			
Body Coat with Broadcast	Work in 200–500 sf increments: 1. Apply with trowel or flat flexible/rigid blade. 2. Wait 10–15 min. 3. Broadcast media at 0.5 lbs./sf according to desired look. 4. When coat is dry, sand any uneven surfaces. 5. Sweep and vacuum loose media.			
Decorative Coat (knockdown/ orange-peel texture, simulated tile, staining, integral color)	• hopper gun, air compressor, and/or trowel	Part A: Acrylic Admix Part B: Texture 2.0 or 3.0	A:B= 1-1.25 gal.:50 lbs.	
4" cove (3/16" deep, 1" radius)	• cove trowel	Part A: Acrylic Admix Part B: Base Coat	A:B = 3 qts.:50 lbs.	50–60 lft/kit
6" cove (3/16" deep, 1" radius)				30–40 lft/kit

ACRYLIC POLYMER CONCRETE ADDITIVES AND AGGREGATES

Product	Use	Mix Ratio
KRETUS® Fast Control (FC)	• cuts up to 1-hour off recoat time • can be used with any KRETUS® Acrylic Polymer Concrete products	A:B:FC = 3 qts.-1.25 gal.: 50 lbs.:1 oz.
KRETUS® Slow Control (SC)	• cuts up to 1-hour off recoat time • can be used with any KRETUS® Acrylic Polymer Concrete products	A:B:FC = 3 qts.-1.25 gal.: 50 lbs.:1 oz.
WB Colorant (WB)	• colors concrete • can be used with any KRETUS® Acrylic Polymer Concrete products	A:B:WB = 1–1.25 gal.:50 lbs.:4 oz.
Broadcast: Industrial Sand or Quartz	• improves slip resistance • can be used with any KRETUS® Acrylic Polymer Concrete products	Broadcast only