

General Overview

POLYURETHANE

ON-SITE APPLICATION TESTING

To ensure desired results are achieved, KRETUS® highly recommends that the system be tested in a small area on site.

SURFACE PREPARATION

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

Before installing any KRETUS® product, substrate must be

- **Clean:** Remove any and all contaminants.
- **Profiled:** Mechanically prepare surface to CSP 1-3 (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. See KRETUS® Urethane Polymer Concrete or Top Shelf® Epoxy General Overviews.

NOTE: Joints and cracks may need to be expanded to 2x the width and 1x the depth. Anchor joints may need to be added before termination points. Edges around drains and gutters may need a deeper slope.

MIXING GUIDE

Review mix ratios and application methods in KRETUS® System Action Guideline.

Review KRETUS® Mixing Station Guide available at kretus.com/project-planning 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 use a low-RPM, low- torque drill and Jiffler double-bladed mixer.

Mixing Instructions

- Mix Polyurethane Parts A and B only if product names match: HP with HP; HS with HS.
- Mix Part A and B for 2 minutes.
- **If adding fumed silica or Matting Additive:** Mix Part A and additive for 2-5 minutes. Add Part B and mix for 2 minutes.
- **If adding Metallic Pigment:** Add additive to Part A and mix for 2-5 minutes. Allow color to set for 20 minutes to 24 hours before combining with Part B. Add Part B and mix for 1-2 minutes.
- **If adding Poly Colorant:** Mix Part A and additive for 2-5 minutes. Add Part B and mix for 2 minutes.
- **If adding KRETUS® Solvent Cleaner, quartz, or Anti-Slip texture:** Mix Part A and Part B and mix for 2 minutes. Add additive and mix for 1 minute.

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.

For technical and safety data on Polyurethane, go to kretus.com/polyurethane.



POLYURETHANE APPLICATIONS (IN ALPHABETICAL ORDER)

APPLICATION	PRODUCT	STANDARD KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*
Base or Body Coat, 5-7 mils	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • 5-7 WFT-mil blade • non-shed 3/8" nap roller 	340-480 SF/KIT
Base or Body Coat, 8-12 mils	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • 8-12 WFT-mil blade • non-shed 3/8" nap roller 	200-300 SF/KIT
Broadcast System: Base Coat Directly Under Broadcast	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	Work in 200-500 sf increments: 1. Apply with 8-12 WFT mil blade. 2. Wait 10-15 min. 3. Broadcast media according to desired look. 4. When coat is dry, sand any uneven surfaces. 5. Sweep and vacuum loose media.	200-300 SF/KIT
Broadcast System: Cap Coat Directly Over Broadcast	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • flat rigid or flat flexible blade • non-shed 3/8" nap roller 	Over Quartz/Sand <ul style="list-style-type: none"> • XF-grade: 200-260 SF/KIT • F-grade: 170-230-230 SF/KIT • Q-grade: 160-230 SF/KIT Over Color Chip <ul style="list-style-type: none"> • 1/4": 230-260 SF/KIT • 1/8": 190-230 SF/KIT
Broadcast System: Top Coat Directly Over Cap Coat	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • flat rigid or flat flexible blade • non-shed 3/8" nap roller 	560-640 SF/KIT
Metallic Prime Coat (CSP 2-3)	Part A: HS EZ Part B: HS B Part MP: Metallic Pigment	A:B:MP = 1 gal:1/2 gal:5-8 oz	<ul style="list-style-type: none"> • flat flexible blade • non-shed 3/8" nap roller 	300-450 SF/KIT
Metallic Body Coat	Part A: HS EZ Part B: HS B Part MP: Metallic Pigment	A:B:MP = 1 gal:1/2 gal:8-12 oz	<ul style="list-style-type: none"> • 15-20 WFT mil blade • non-shed 3/8" nap roller • effects: leaf blower, back roll, or solvent spray 	120-160 SF/KIT
Prime Coat (CSP 2-3)	Part A: HS FC or HS EZ Part B: HS B Part SC: Solvent Cleaner	A:B:SC = 1 gal:1/2 gal:1 qt	<ul style="list-style-type: none"> • flat flexible or flat rigid blade • non-shed 3/8" nap roller • dry back roll 	675-725 SF/KIT
Top Coat, 3-5 mils	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • flat flexible or flat rigid blade • non-shed 3/8" nap roller 	210-300 SF/KIT
	Part A: HP Gloss Part B: HP B	A:B = 1 qt:1 gal		575-625 SF/KIT
	Part A: HP Satin Part B: HP B	A:B = 1/2 gal:1 gal		675-725 SF/KIT



POLYURETHANE APPLICATIONS (CONTINUED FROM PAGE 2)

APPLICATION	PRODUCT	STANDARD KIT MIX RATIO	METHOD/TOOLS	COVERAGE RATE*	
Top Coat, 8-12 mils	Part A: HS FC or HS EZ Part B: HS B	A:B = 1 gal:1/2 gal	<ul style="list-style-type: none"> • 8-12 WFT mil blade • non-shed 3/8" nap roller 	200-300 SF/KIT	
Top Coat with Anti-Slip texture	Part A: HP Gloss Part B: HP B Part T: AO 220 or AO 120 or Bead 100	A:B:T = 1 qt:1 gal:8 oz	<ul style="list-style-type: none"> • 3-5 WFT mil blade • non-shed 3/8" nap roller OR <ul style="list-style-type: none"> • dip-and-roll method with non-shed 3/8" nap roller 	575-625 SF/KIT	
	Part A: HP Gloss Part B: HP B Part T: AO 80	A:B:T = 1 qt:1 gal:8-10 oz			
	Part A: HP Gloss Part B: HP B Part T: Bead 50 or Glass 70 or Tex 50	A:B:T = 1 qt:1 gal:10 oz			
	Top Coat with Anti-Slip texture	Part A: HP Satin Part B: HP B Part T: AO 220 or 120 or Bead 100	A:B:T = 1/2 gal:1 gal:12 oz	<ul style="list-style-type: none"> • 3-5 WFT mil blade • non-shed 3/8" nap roller OR <ul style="list-style-type: none"> • dip-and-roll method with non-shed 3/8" nap roller 	675-725 SF/KIT
		Part A: HP Satin Part B: HP B Part T: AO 80 or 60 or Bead 50 or Glass 70 or Tex 50	A:B:T = 1/2 gal:1 gal:14 oz		
	Top Coat with Anti-Slip texture	Part A: HS EZ or FC Part B: HS B Part T: AO 220 or AO 120 or Bead 100	A:B:T = 1 gal:1/2 gal:12 oz	<ul style="list-style-type: none"> • 5-7 WFT mil blade • non-shed 3/8" nap roller OR <ul style="list-style-type: none"> • dip-and-roll method with non-shed 3/8" nap roller 	340-480 SF/KIT
		Part A: HS EZ or FC Part B: HS B Part T: AO 80 or 60 or Bead 50 or Glass 70 or Tex 50	A:B:T = 1 gal:1/2 gal:14 oz		
Part A: HS EZ or FC Part B: HS B Part T: AO 36		A:B:T = 1 gal:1/2 gal:16 oz			
Vertical Coat	Part A: HS EZ or FC Part B: HS B Part T: fumed silica	A:B:T = 1 gal:1/2 gal:1 qt	<ul style="list-style-type: none"> • flat flexible blade • non-shed 3/8" nap roller 	950 SF/KIT	



AGGREGATES & ADDITIVES

- Find Color Charts for Vinyl Color Chip, Color Quartz, and Poly Colorant at kretus.com/color-charts.

PRODUCT	USE	COVERAGE RATE*	MIX RATIO
Anti-Slip (kretus.com/anti-slip)	Increase impact and skid resistance.	Depends on application	See mix ratios for Top Coat with Anti-Slip texture.
ESD Additive	Gives top coat ESD properties. See kretus.com/esd .	Depends on application	1 gal per 1.25-1.5-gal kit
Fumed Silica	Thickens Polyurethane.	Depends on application	See mix ratio for Vertical Coat.
Matting Additive	Reduces gloss.	Depends on application	1-3 lbs per 1.25-1.5-gal kit
Metallic Pigment	Gives Polyurethane a 3-D reflective look. NOTE: Use only with Polyurethane HS EZ.	Depends on application	See mix ratios for Metallic applications.
Poly Colorant	Pigments Polyurethane.	Depends on application	See kretus.com/color-charts .
Quartz, XF-grade, or Industrial Sand #60	Broadcast over Base Coat to improve slip resistance or provide decorative finish.	0.50-0.75 LB/SF	Do not mix if using as broadcast.
Quartz, F-grade, or Industrial Sand #30	Broadcast over Base Coat to improve slip resistance or provide decorative finish.	0.25-0.50 LB/SF	Do not mix if using as broadcast.
Quartz, Q-grade, or Industrial Sand #20	Broadcast over Base Coat to improve slip resistance or provide decorative finish.	0.25 LB/SF	Do not mix if using as broadcast.
Solvent Cleaner	Reduces viscosity and extends spread rate.	Depends on application	See mix ratios in Application table.
Vinyl Color Chips, 1/8"	Broadcast over Base Coat to improve slip resistance or provide decorative finish.	0.15-0.25 LB/SF	Broadcast only—do not mix into coating.
Vinyl Color Chips, 1/4"	Broadcast over Base Coat to improve slip resistance or provide decorative finish.	0.15-0.25 LB/SF	Broadcast only—do not mix into coating

*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.

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.