

## Product Guide

### POLYURETHANE

KRETUS® Polyurethanes are 2-component systems recommended for high-traffic areas such as forklift loading zones, drive aprons, and commercial walkways. **KRETUS® Polyurethane HP** (High Performance) in satin or gloss protects underlying systems against stains, chemical spills, and UV degradation at 5 mils thick. **KRETUS® Polyurethane HS** (High Shine) has similar protective properties but can be applied up to 16 mils thick.

### SYSTEM APPLICATIONS

- UV-stable decorative systems
- protective top coat over functional and decorative finishes
- industrial, healthcare, commercial, government, institution, and residential areas

### ADVANTAGES

- **compliance:** meets USDA, FDA, EPA, SCAQMD, and VOC standards
- **antimicrobial:** protect against bacterial and fungal growth
- **chemical & stain resistant:** withstands exposure to harsh chemicals, food and drink, and cleaners (For test results, see KRETUS® Chemical Resistance Chart at [kretus.com/project-planning](http://kretus.com/project-planning).)
- **ez clean:** requires little effort to maintain (For detailed maintenance, see KRETUS® Maintenance and Cleaning Guide at [kretus.com/project-planning](http://kretus.com/project-planning).)
- **freeze cure:** can be applied at or above -20°F
- **green building:** eligible for LEED points, locally produced from partially recycled materials
- **high-traffic tolerant:** stands up to vehicle traffic and continuous pedestrian traffic
- **hot-tire resistant:** curbs delamination caused by hot tires
- **scratch resistant:** conceals minor scratches
- **UV resistant:** protects against deterioration and discoloration from intense lighting and sun exposure
- **waterproofing:** protects surfaces and underlying areas from water intrusion

### LIMITATIONS

- Do not let material puddle on floor—this will cause white spots to appear when Polyurethane cures.
- Adding Poly Colorant may reduce working time by 5 minutes. If combining with FC hardener, mix in small batches or increase number of installers.
- A single coat of Polyurethane HP should be 5 mils thick or less (5 mil = 320 sf/gal). For Polyurethane HS, single coats may be applied up to 20 mils thick (20 mils = 120 sf/gal). If installation requires thicker single coat, use KRETUS® Urethane Polymer Concrete UV or Top Shelf® Epoxy.
- If installation requires application greater than 5 mils, use KRETUS® Polyurethane HS or Polyaspartic.
- Do not install Polyurethane HP directly over moisture-sensitive concrete, broadcasted vinyl chip, 30-grit or larger quartz, or 80-mesh or larger aluminum oxide.

### FINISH

- **Polyurethane HS:** high shine (HS), clear (unpigmented), texture based on application
- **Polyurethane HP:** gloss or satin, clear (unpigmented), texture based on application
- **Color & decorative options:** See KRETUS® Poly Colorant Color Chart at [kretus.com/color-charts](http://kretus.com/color-charts).
- **Increased slip resistance:** See KRETUS® Anti-Slip samples at [kretus.com/anti-slip](http://kretus.com/anti-slip).
- **Custom orders:** See KRETUS® Special Order form at [kretus.com/project-planning](http://kretus.com/project-planning).



**PRODUCT DATA**

For steps 1 and 2, pick products with the same two letters in the product name. Example: If you choose HS as Part B, select either HS EZ or HS FC as Part A.

1. Choose Part B based on the type of application required.

PART B	APPLICATION	MVER (ASTM F1869)	RH (ASTM F2170)
HP	<ul style="list-style-type: none"> <li>• 3-5 mil high-performance top coat</li> </ul>	3 lbs	80%
HS	<ul style="list-style-type: none"> <li>• 8-16 mil high-shine prime, base, and top coat</li> </ul>	3 lbs	80%

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

PART A	FINISH & SKILL LEVEL	RECOMMENDED APPLICATION TEMPERATURE	MIX RATIO	WORKING TIME	RECOAT TIME	RETURN TO SERVICE	FULL CURE
HP GLOSS	<ul style="list-style-type: none"> <li>• gloss</li> <li>• for mid- to expert-level installers and at mid-temperatures with higher RH</li> </ul>	60-90°F <70% RH	A:B = 1 qt:1 gal	20 min	4-6 hrs	12 hrs	5 days
HP SATIN	<ul style="list-style-type: none"> <li>• satin</li> <li>• for mid- to expert-level installers and at mid-temperatures with mid to low RH</li> </ul>	60-80°F <55% RH	A:B = 1/2 gal:1 gal	15-20 min	4-6 hrs	12 hrs	7 days
HS EZ	<ul style="list-style-type: none"> <li>• gloss</li> <li>• easy to apply, long working time</li> <li>• for beginner installers &amp; at high temperatures with low RH</li> </ul>	60-110°F <40% RH	A:B = 1 gal:1/2 gal	30-45 min	6-8 hrs	48 hrs	7 days
HS FC	<ul style="list-style-type: none"> <li>• gloss</li> <li>• fast cure</li> <li>• for expert installers &amp; at low temperatures with low RH</li> </ul>	40-80°F <40% RH	A:B = 1 gal:1/2 gal	15-20 min	2-4 hrs	12 hrs	7 days

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

- higher temperature = faster working times
- lower temperature = slower working times
- higher humidity = faster working times
- lower humidity = slower working times

**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.