



## TOP SHELF® EPOXY COVE-RESIN | AP

### Get Tough Jobs Won

**KRETUS® TOP SHELF® EPOXY COVE-RESIN | AP** is a 2-component, 100% solids resinous wall-cove system that can be applied in mid- to high-temperature environments. A highly versatile application, this system can be used for crack and joint repair as well as prime, body, or top coat and has high adhesion to concrete and a 24-hour return-to-service with 7 days to full cure.

#### ADVANTAGES

- Meets USDA, FDA, EPA, and SCAQMD Standards
- Eligible for LEED Points: Made in California from Partially Recycled Materials
- Adhesion to Concrete, Wood, Metal, Non-glazed Tiles
- Anti-bacterial
- High Traffic and Impact Resistance
- Low Maintenance
- Low Odor
- Waterproofing

#### SUGGESTED USES AND APPLICATION AREAS

- Crack and Joint Repair
- Primer
- Vertical Coat
- Wall Cove
- Seamless Moisture Mitigation
- Slurry, Mortar, and Decorative Systems
- Industrial, Healthcare, Commercial, Government, Institutional, and Residential
- ADA Compliant Ramps

#### KRETUS® SYSTEMS

- Epoxy Cove

For all KRETUS® systems, see [kretus.com/systems](https://kretus.com/systems).

#### FINISH AND COLOR

- Gloss Clear or Opaque when Pigmented: Find Color Charts at [kretus.com/color-charts](https://kretus.com/color-charts).

#### PRECAUTIONS AND LIMITATIONS

- **UV Resistance:** Coating will amber over time. If color stability is important, use UV-stable Urethane Polymer Concrete RC UV, Polyurethane, Polyaspartic, or Acrylic Sealer. See [kretus.com/products](https://kretus.com/products).
- **Prime Coat:** A prime coat may be required if stem walls are highly absorbent, if outgassing is suspected or prevalent, or if concrete is very porous or in poor condition. All concrete repairs must be completed before installing any system.
- DO NOT let material puddle on floor. This may cause white spots to appear when coating cures.
- Complete samples and onsite mockups to ensure desired results are achieved.
- **Application temperatures:** When temperatures increase, material cures faster. Material cures slower when temperatures decrease.
- Application times are based on test results compiled by lab technicians in a controlled setting. All times recorded using 1-quart samples. All Top Shelf® hardeners were combined with A-Resin.
- If application temperatures are outside of those recommended, contact your KRETUS® Technical Representative.

- 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.
- Apply material when temperature is decreasing—adhere to the KRETUS® Dew Point Calculation Chart available at [kretus.com/project-planning](http://kretus.com/project-planning). DO NOT apply under direct sunlight. DO NOT install under inclement weather conditions.
- Recommended for Applicators level 3 and up. (See [kretus.com/applicator-skill-level](http://kretus.com/applicator-skill-level).)

## COMPONENTS

### Standard Kit

- Part A: Top Shelf® Epoxy Cove-Resin, 1 gal
- Part B: Top Shelf® Epoxy AP, 1/2 gal

### Bulk Kit

- Part A: Top Shelf® Epoxy Cove-Resin, 10 gal
- Part B: Top Shelf® Epoxy AP, 5 gal

Larger kits may be available through KRETUS® distributor.

## SAFETY, TESTING, AND WARRANTY

- **Safety:** Personal protective equipment and safety conditions must be considered before using any product. Review all relevant and current documentation including Safety Data Sheets ([kretus.com/safety-data-sheets](http://kretus.com/safety-data-sheets)).
- **Testing:** Before installation: Test and look for any unknown site conditions and/or defects. To ensure desired results are achieved, the system should be tested in a small area on site before full installation begins.
- **Warranty:** For warranty to be upheld, Pre- and Post-Job Checklists ([kretus.com/project-planning](http://kretus.com/project-planning)) must be completed.

## STORAGE AND APPLICATION TEMPERATURES

Ideal Storage Environment	Dry, Out of Direct Sunlight, 60-80°F
Material Temperature During Application	50-70°F and 5°F Above Dew Point
Minimum Substrate Temperature During Application	5°F Above Dew Point
Recommended Application Temperature	60-95°, <90% RH

## Average Application Time

Ambient Temperature	60-95°, <90% RH	50°F, 50 % RH	70°F, 50 % RH	100°F, 50 % RH
Working Time	25-35 mins	45 min	35 min	25 min
Recoat Window	7.5-36 hrs.	14-36 hrs.	7.5-36 hrs.	6-24 hrs.
Return to Service (Foot Traffic)	24 hrs.	36 hrs.	24 hrs.	24 hrs.
Full Cure (Vehicle Traffic)	7 days	7 days	7 days	7 days

## SURFACE PREPARATION

Before installing any coating, the substrate must be sound, meaning all necessary concrete repairs have been completed. It must be clean, dry, and free of any contaminants, moisture, materials, or particles that may hinder material's adhesion to the substrate. If applying directly over concrete, the substrate must be mechanically profiled to ICRI CSP 3. Different projects may require a different concrete surface profile. Adhere to International Concrete Repair Institute current standards.

## MIXING AND APPLICATION

Standard Kit Mix Ratio	A:B = 1 gal: 1/2 gal
Viscosity Reducer	1-2 qts. Per standard kit.
Top Shelf® Epoxy Colorant	16 oz per standard kit
Crack and Joint Repair with 20 or 30 Mesh Sand/Quartz	10-75 lbs. per standard kit
Mixing Drill	low-RPM, low-torque drill with Jiffy double-bladed mixer
Mixing Drill When Combining With Large Aggregates	high-RPM, high-torque drill with Jiffy double-bladed mixer

Mixing Directions	Mix A until color and consistency are uniform. Add B and continue to mix for 2 min.
Mixing Directions With Viscosity Reducer	Mix A with B for 1 minute. Add additive and continue to mix for 1 minute or until color and consistency is uniform.
Mixing Directions With Colorant	Mix A with colorant until color and consistency is uniform. Add B and continue to mix for 2 min.
Mixing Directions With Aggregate	Mix A alone or with colorant until color and consistency is uniform. Add B and continue to mix for 2 min. Slowly add aggregate and continue to mix for 1 min.

### Coverage Rates per Standard Kit

Wall Cove Prime/Top Coat	300-375 lf/kit
Wall Cove Body Coat, 4" high by 3/16" thick with 1" radius	60 lf/kit
Wall Cove Body Coat, 6" high by 3/16" thick with 1" radius	40 lf/kit
Crack and Joint Repair, 1/4" wide by 1/4" deep	460 lf/kit
Crack and Joint Repair	See Joint and Filler Rates ( <a href="https://kretus.com/joint-filler-rates">kretus.com/joint-filler-rates</a> ).
Cap Coat Over F-Grade Or 30-Mesh Quartz/Sand Broadcast	300-375 lf/kit
Vertical Coat, 3-5 mils	480-800 sf/kit

Premeasure components to make sure you are using the correct mix ratio. Combine components according to mix instructions. Continue mixing until the coating's consistency is uniform. The coating must remain thoroughly mixed during the application.

Keep a wet edge while applying product. Wear spiked shoes when walking on material. For more applications and coverage rates, see KRETUS® General Overview ([kretus.com/product-general-overviews](https://kretus.com/product-general-overviews)).

### PROPERTIES WHEN FULLY CURED

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	40 mg loss
Abrasion Resistance with Anti-Slip	ASTM D4060	24-30 mg
Adhesion Strength	ASTM D4541	400 psi, concrete failure
Adhesion Strength	ASTM D4541	400 psi, vinyl failure
Adhesion Strength	ASTM D4541	500 psi, natural quartz failure
Adhesion Strength	ASTM D4541	450 psi, color quartz failure
Compressive Strength	ASTM D695	13,700 psi
Flame Spread/Critical Flux	ASTM E648	Class 1
Flame Spread/Rate of Burning	ASTM D635	Self-extinguishing
Flexural Strength	ASTM D790	9,000 psi
Hardness (Shore D)	ASTM D2240	85
Impact Resistance	ASTM D2794	120 in-lbs.
Indoor Air Quality	CA 01350	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth
Modulus of Elasticity	ASTM D790	5.0 x 10 <sup>5</sup> psi
Moisture Vapor Permeance	ASTM E96	0.08 perms
Tensile Elongation at Break	ASTM D638	5%
Tensile Strength	ASTM D638	7,800 psi
Thermal Coefficient of Linear Expansion	ASTM D696	18.0 x 10 <sup>-6</sup> in/in/°F

Water Absorption	ASTM D570	<0.05%
Moisture Vapor Emission Rate	ASTM F1869	8-10 lbs.
Relative Humidity	ASTM F2170	<80%

## CHEMICAL AND STAIN RESISTANCE

1 = Best for chemical resistance: Chemical has no adverse effects on fully cured coating; remove within 24 hours.

2 = Low potential for stain: Chemical has no adverse effects on fully cured coating if removed within 24 hours.

3 = High potential for stain or degradation: Chemical must be removed within 24 hours of exposure.

NR = Not recommended

Acetic Acid (Component of Vinegar), 10% .....	1	Methanol .....	NR
Acetic Acid, 30%.....	2	Methylene Chloride .....	NR
Acetone.....	NR	MIBK (Methyl Isobutyl Ketone).....	NR
Ammonia, 30%.....	1	Mineral Oil .....	1
Ammonium Hydroxide, 30% .....	1	Motor Oil, SAE 30 .....	1
Antifreeze (Coolant).....	1	Mineral Spirits.....	NR
Benzene (Component of Crude Oil) .....	3	Mustard, Yellow .....	2
Benzyl Alcohol .....	3	Nitric Acid, 30% .....	NR
Betadine, 11% .....	NR	Oleic Acid .....	1
Boric Acid, 4% .....	1	Oxalic Acid, 10%.....	1
Brake Fluid, DOT 3 .....	1	Phosphoric Acid, 20% .....	3
Chromic Acid, 10%.....	3	Potassium Hydroxide, 30%	
Chromic Acid, 30%.....	3	(Alkaline Batteries, Soap Manufacturing).....	1
Citric Acid, 30% .....	1	Propylene Glycol .....	1
Ethanol, 95%.....	NR	Silver Nitrate, 20% (Photo Labs) .....	3
Ethyl Acetate, 99% (Food/Beverage Facility) .....	NR	Hydraulic Fluid (Aviation), Skydrol LD-4 .....	2
Formaldehyde, 37% .....	3	Sodium Chloride, 20%.....	1
Premium Gasoline.....	1	Sodium Hydroxide (Caustic Soda), 50% .....	1
Hydraulic Fluids		Sodium Hypochlorite (Bleach), 10% .....	2
(Machinery, Automobile, Aviation) .....	2	Sodium Hypochlorite (Bleach), 30%.....	3
Hydrochloric Acid, 10%.....	3	Sodium Persulfate	
Hydrochloric Acid, 30%.....	3	(Bleaching and Oxidizing Agent).....	3
Hydrofluoric Acid, 10% .....	1	Sulfuric Acid, 37% (Battery Acid) .....	NR
Hydrofluoric Acid, 30% .....	3	Tannic Acid, 20%.....	3
Hydrogen Peroxide, 10% .....	NR	Tartaric Acid, 10% .....	1
Hydrogen Peroxide, 50% .....	NR	Transmission Fluid .....	1
Iodine, 2% .....	3	Urine, Dog or Cat .....	1
Isopropyl Alcohol .....	3	Urea (Nitrogen-Rich Fertilizer).....	1
Jet Fuel.....	1	Vinegar, Distilled .....	1
Lactic Acid, 30% (Dairy Facility).....	NR	Water (Hard Water from Well) .....	1
Lime Juice .....	2	Whisky .....	1
Magnesium Hydroxide.....	1	Wine, Cabernet Sauvignon .....	2
MEK (Methyl Ethyl Ketone) .....	NR	Xylene .....	3

Pigments or colorants may affect working times, reduce chemical resistance, or increase potential for stain. Coatings tested at ambient temperature over 1-3 days' exposure to chemical. To ensure desired results are achieved, products should be tested on site before installation.

**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, as well as KRETUS® technical guidelines must always be adhered to. The steps given in this document and other mentioned documents are critical to the success of your project.