ECOMAGNETIC™ COATING

ATTRACT ENDLESS POSSIBILITY

KRETUS® ECOMAGNETIC™ COATING is a 3-component magnetically receptive resin base coat or underlayment. Once the underlayment is installed, users can lay magnetic-backed surface tiles or standard-backed coverings with KRETUS® ECOMAGNETIC™ TABS on top.

ADVANTAGES

- Meets USDA, FDA, EPA, and SCAQMD Standards
- Eligible for LEED Points: Made in California from Partially Recycled Materials
- Easy Installation: Underlayment Has Long Working Time for Smooth, Even Application
- Extreme Temperature Resistance, (-)20–200°F
- Low-Cost and Easy Repair: Once installed, Single Tiles, Panels, or Boards Can Be Replaced Without the Need to Hire a Professional

SUGGESTED USES AND APPLICATION AREAS

- Custom Floor, Wall, and Backsplash Designs Using Luxury Vinyl Tile, VCT, Carpet, Wood, and More
- Healthcare, Commercial, Government, Institutional, and Residential

KRETUS® SYSTEMS

- EcoMagnetic™ System

For all KRETUS® systems, see kretus.com/systems.

COATING APPEARANCE AT FULL CURE

- Opaque Black

PRECAUTIONS AND LIMITATIONS

- Complete samples and onsite mockups to ensure desired results are achieved.
- Level surface areas: Changes in surface level must be no greater than 1/32 inch.
- DO NOT apply single coat greater than 12 mils thick (133 sf per gallon). DO NOT let material puddle on floor.
- Application temperatures: Material cures faster as temperature and humidity increase. Material cures slower as they decrease. If application temperatures are outside of those recommended, contact your KRETUS® Technical Representative.
- Apply material when temperature is decreasing—adhere to the KRETUS® Dew Point Calculation Chart available at kretus.com/project-planning. DO NOT apply under direct sunlight. DO NOT install under inclement weather conditions.
- 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.

COMPONENTS

Standard Kit (items packaged in 5-gallon bucket)

- Part A: EcoMagnetic™ Coating, Part A, 1/2 gal
- Part B: EcoMagnetic™ Coating, Part B, 1/2 gal
- Part C: EcoMagnetic™ Coating, Part C, 18 lbs.

Bulk Kit (items packaged separately)

- Part A: EcoMagnetic™ Coating, Part A 5 gal
- Part B: EcoMagnetic™ Coating, Part B, 5 gal
- Part C: EcoMagnetic™ Coating, Part C, 180 Lbs.

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).
- 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) 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	<80°F, <55% RH (Relative Humidity)

Average Application Time

Ambient Temperature	<80°F, 55% RH	50°F, 30% RH	50°F, 75% RH	70°F, 50% RH	90°F, 20% RH	90°F, 80% RH
Working Time	15-25 min	NR	NR	15-25 min	NR	10-15min
Recoat Window	6-24 hrs.	NR	NR	6-24 hrs.	NR	3-12 hrs.
Return to Service (Tab Ready)	24 hrs.	NR	NR	24 hrs.	NR	12 hrs.
Full Cure	5 days	NR	NR	5 days	NR	5 days

*NR=Not Recommended

SURFACE PREPARATION

Before installing any coating, the substrate must be

- sound: Complete all necessary repairs.
- clean: Remove all contaminates, moisture, materials, or particles that may hinder material's adhesion to the substrate.
- level: If changes in surface level are greater than 1/32 inch, contact KRETUS® for self-leveler recommendations.

Concrete 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

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.

Standard Kit Mix Ratio	A:B:C = 1/2 gal:1/2 gal:18 lbs.
Mixing Drill	low-RPM, low-torque drill with Jiffy double-bladed mixer
Mixing Directions	Pour entire contents of Part A and Part B into the mixing vessel. Mix for 25-30 seconds or until translucent color is consistent throughout. Slowly add Part C and mix for 30-40 seconds or until texture and opaque gray color are uniform. Total mixing time: 2 minutes
Base Coat, 8-12 Mils	133-200 sf/gal

PROPERTIES WHEN FULLY CURED

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	15 mg loss
Adhesion Strength	ASTM D4541	400 psi, 100% Concrete failure
Coefficient of Friction - Dry	ASTM D2047	0.7
Coefficient of Friction - Wet	ASTM D2047	0.6
Flame Spread/ Critical Flux	ASTM E648	Class 1
Flame Spread/ Rate of Burning	ASTM D635	Self-extinguishing
Flexibility/ Mandrel Bend	ASTM D522	Passes 1/8-in.
Hardness (König Hardness)	ASTM D4366	150
Impact Resistance	ASTM D2794	120 in-lbs..
Indoor Air Quality	CA 01350	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth
Tensile Elongation at Break	ASTM D2370	5%
Tensile Strength	ASTM D2370	6,000 psi
Water Absorption	ASTM D570	<0.05

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
Acetic Acid, 30% 2
Acetone 1
Ammonia, 30% 1
Ammonium Hydroxide, 30% 1
Antifreeze (Coolant) 1
Benzene (Component of Crude Oil) 1
Benzyl Alcohol 1
Betadine, 11% 1
Boric Acid, 4% 1
Brake Fluid, DOT 3 1
Chromic Acid, 10% 1
Chromic Acid, 30% 1
Citric Acid, 30% 1
Ethanol, 95% 1
Ethyl Acetate, 99% (Food/Beverage Facility) 1
Formaldehyde, 37% 3
Premium Gasoline 1
Hydraulic Fluids (Machinery, Automobile, Aviation) 2
Hydrochloric Acid, 10% 1
Hydrochloric Acid, 30% 3
Hydrofluoric Acid, 10% 1
Hydrofluoric Acid, 30% 3
Hydrogen Peroxide, 10% 1
Hydrogen Peroxide, 50% 1
Iodine, 2% 3
Isopropyl Alcohol 2
Jet Fuel 1
Lactic Acid, 30% (Dairy Facility) 3
Lime Juice 1
Magnesium Hydroxide 1

MEK (Methyl Ethyl Ketone)	1
Methanol	1
Methylene Chloride	NR
MIBK (Methyl Isobutyl Ketone)	1
Mineral Oil	1
Motor Oil, SAE 30	1
Mineral Spirits	1
Mustard, Yellow	1
Nitric Acid, 30%	NR
Oleic Acid	1
Oxalic Acid, 10%	1
Phosphoric Acid, 20%	2
Potassium Hydroxide, 30% (Alkaline Batteries, Soap Manufacturing)	1
Propylene Glycol	1
Silver Nitrate, 20% (Photo Labs)	3
Hydraulic Fluid (Aviation), Skydrol LD-4	2
Sodium Chloride, 20%	1
Sodium Hydroxide (Caustic Soda), 50%	1
Sodium Hypochlorite (Bleach), 10%	1
Sodium Hypochlorite (Bleach), 30%	2
Sodium Persulfate (Bleaching and Oxidizing Agent)	3
Sulfuric Acid, 37% (Battery Acid)	2
Tannic Acid, 20%	3
Tartaric Acid, 10%	1
Transmission Fluid	1
Urine, Dog or Cat	1
Urea (Nitrogen-Rich Fertilizer)	1
Vinegar, Distilled	1
Water (Hard Water from Well)	1
Whisky	1
Wine, Cabernet Sauvignon	1
Xylene	1

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.