



Epoxy-Shell™ 1000

PRODUCT DESCRIPTION

SEAL-KRETE® Epoxy-Shell™ 1000 is an epoxy-based coating system that provides outstanding customer value. Epoxy-Shell blends durability with outstanding adhesion properties, allowing it to be used on a variety of substrates including concrete, tile, and laminates. Its great value, slower dry time, and low odor formulation makes Epoxy-Shell ideal for larger indoor application areas.

FEATURES AND BENEFITS:

- Versatile – coatings, broadcast floors, chip floors & slurry/broadcast
- User friendly
- Low odor – 100% solids
- Tenacious adhesion
- Chemical resistant
- Compliant nationwide with near zero VOC
- Available in:
 - Clear 3 Gallon Kit, Item # 231003
 - Clear 15 Gallon Kit, Item # 231005
 - Color 1.5 Gallon Kit (see SEAL-KRETE High Performance Flooring Systems brochure for available colors)

TYPICAL USES:

- Laboratories
- School hallways
- Hospitals
- Animal care facilities
- Cafeterias
- Retail stores
- Manufacturing plants
- Pharmaceutical facilities
- Research facilities
- Shower and locker rooms
- Detention facilities

Important: Read all directions thoroughly. Recommended: Wear gloves, safety glasses and protective clothing or apron.

SURFACE PREP*

New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, coatings, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lbs per 1000 sq. ft. over a 24 hours period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is abrasive blasting or scarification using diamond heads to achieve a final 80–120 grit finish, reference Profile SP-2 ICRI Technical Guideline No. 03732. If patching is required, use SEAL-KRETE Fast Cure High Strength Concrete Repair.

APPLICATION

MIXING INSTRUCTIONS: Combine two parts by volume of Part A with one part by volume of Part B and thoroughly mix using a low speed drill with mixing attachment for 3 minutes. Mix only the amount of material that can be poured and applied immediately during the pot life (approximately 30–45 minutes, depending on air/surface temperatures). Do not aerate the mix.

SEAL-KRETE Epoxy-Shell 1000 can be applied using a notched squeegee or short nap lint free mohair roller.

Refer to Application Guide or visit hp.seal-krete.com for detailed application instructions.

CLEAN-UP, STORAGE AND DISPOSAL

CLEAN-UP: Clean tools and application equipment immediately after use with an active solvent like xylene. Clean spills or drips while still wet with solvent. Dried SEAL-KRETE Epoxy-Shell will require mechanical abrasion for removal.

HANDLING: Irritating to eyes, skin and mucus membranes. Do not breathe mixed product vapors or dusts. Provide adequate ventilation. May cause sensitization by prolonged skin contact and/or inhalation.

KEEP FROM FREEZING: Store in a cool, well ventilated area above freezing.

DISPOSAL: Waste disposal should be in accordance with existing federal, state and local environmental control laws.

LIMITATIONS

Do not aerate during mixing. Apply when temperature is 50°–90°F. Do not apply if water or ice is present. Lower temperatures will slow cure time. Do not store SEAL-KRETE Epoxy-Shell 1000 at temperatures below 50°F or above 95°F. Cure new concrete 28 days before application. Do not apply to slabs on grade unless a heavy uninterrupted vapor barrier has been installed under the slab. Do not apply SEAL-KRETE Epoxy-Shell 1000 if the floor is subject to moisture vapor drive or hydrostatic pressure. SEAL-KRETE Epoxy-Shell 1000 will yellow upon prolonged exposure to sunlight or high intensity artificial lights.

MAINTENANCE AND CARE

SEAL-KRETE Industrial Flooring Systems are monolithic, making them easier to clean because dirt and contaminants remain on the surface. For maintenance / care recommendations, refer to application guide or visit hp.seal-krete.com.

CAUTION: KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin. If splashed in the eyes remove contact lenses if worn. Flush eyes with clean water for 15 min. If skin or eye irritation persists, seek medical attention. If swallowed, DO NOT induce vomiting. Take immediately to hospital or physician.

**Sanding or removing paint containing lead may be hazardous. For information contact the National Lead Information Center at 1-800-424-LEAD or www.epa.gov/lead.*



Epoxy-Shell™ 1000

MATERIAL PROPERTIES AT 75°F

| | |
|-------------------------------------------|--------------------|
| Mixed VOC Content | < 10 g/L* |
| Mix Ratio (by volume) | 2:1 |
| Tack Free Time | 4–6 hours |
| Recoat Time (min/max) | 12 hrs. / 24 hrs. |
| Light Foot Traffic | 12 hours |
| Vehicular Traffic (hours) | 72 hours |
| ASTM D-570 – Water Absorption (24 hrs.) | < 0.5% |
| ASTM D-635 – Flammability | Self-extinguishing |
| ASTM D-638 – Tensile Strength psi | 4,500–5,200 psi |
| ASTM D-638 – Tensile Elongation % | 20%–30% |
| ASTM D-695 – Compressive Strength: | |
| @ 24 hours | 7,500 |
| @ 7 days | 9,800 |
| ASTM C-722 – Monolithic Surfacing | Pass |
| ASTM D-2794 – Impact Resistance | Pass |
| ASTM D-4060 – Abrasion Resistance (CS-17) | 36 mg |
| ASTM D-4366 – König Hardness | 120 |
| ASTM D-4541 – Adhesion Strength | > 600 psi |

*EPA Method 24 – Floor Category

CHEMICAL RESISTANCE

| | | | |
|---------------------------------|---|-------------------------------------|---|
| Acetic Acid | Y | Methylene Chloride | N |
| Acetone | N | Mineral Spirits | S |
| Ammonia 30% | Y | Motor Oil | Y |
| Ammonium Hydroxide 30% | Y | Mustard | N |
| Animal Urine | S | Nitric Acid 20% | S |
| Antifreeze | Y | Nitric Acid 40% | N |
| Benzyl Alcohol | S | Orange Juice | Y |
| Brake Fluid | Y | Phosphoric Acid 10% | Y |
| Calcium Hypochlorite (Chlorine) | Y | Phosphoric Acid 30% | S |
| Chromic Acid 10% | Y | Phosphoric Acid 50% | S |
| Citric Acid 10% | Y | PM Solvent | Y |
| Clorox | Y | Silver Nitrate 20% | Y |
| Ethyl Acetate | N | Skydrol | S |
| Gasoline | Y | Sodium Hydroxide 50% (Caustic Soda) | Y |
| Glycol Ether | N | Sodium Hypochlorite 15% (Bleach) | Y |
| Hydraulic Fluids | N | Sodium Hypochlorite 50% (Bleach) | N |
| Hydrochloric Acid 35% | Y | Sulfuric Acid 10% (Battery Acid) | Y |
| Hydrofluoric Acid 40% | N | Sulfuric Acid 50% (Battery Acid) | Y |
| Hydrogen Peroxide 30% | S | Tolulene | N |
| Iodine 2% | Y | Trichloroethylene (1,1,1) | S |
| MEK | N | Trichloroethylene | N |
| Methanol | N | Windshield Wiper Fluid | Y |
| Methyl Cellosolve | N | Xylene | S |

Key: Y = RESISTANT S = SPLASH & SPILL N = NOT RECOMMENDED

APPLICATION AND COVERAGE GUIDE

| Steps | System Type | | | | | Coverage | | |
|--------------------------------|-------------|--------------------|--------------------|---------------|---------------|---------------|--------------|------|
| | Solid Color | Sparse Flake | Double Flake | Single Quartz | Double Quartz | Squeegee Size | Sq. Ft./ Gal | Mils |
| Primer Coat Clear or Tinted | √ Tinted | √ Tinted | √ Clear | √ Tinted | √ Clear | 1/8" | 150 | 10.7 |
| Layer 1 Clear or Tinted | √ Tinted | √ Tinted | √ Clear | √ Tinted | √ Clear | 1/8" | 150 | 10.7 |
| Broadcast (lbs./sq ft) | — | Vinyl Chip 0.05 | Vinyl Chip 0.15 | Quartz .50 | Quartz .50 | — | — | — |
| Layer 2 Clear | — | — | √ | — | √ | 1/8" | 150 | 10.7 |
| Broadcast (lbs./sq ft) | — | — | Vinyl Chip 0.15 | — | Quartz .50 | — | — | — |
| Grout Coat Clear | — | √ | √ | √ | √ | 1/8"* | 150 | 10.7 |
| Seal Coat Clear | √ | √ | √ | √ | √ | flat* | 200 | 8.0 |

Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, texture and thickness will determine actual material requirements.

*A larger notched squeegee can be used for a smoother surface.

WARRANTY: Seller makes no warranty, either expressed or implied, concerning this product, its quality, performance, merchantability, or fitness for a particular purpose other than expressly designated warranty of this label. Buyer assumes all risk of use and handling of this material.

TECHNICAL SUPPORT: For more information on surface prep or application guidelines, or to obtain a Material Safety Data Sheet, call 1-800-323-7357, M–F (8:00 am–5:00 pm EST) or visit our website at hp.seal-krete.com.

Country of Origin: U.S.A.



Convenience Products

306 Gandy Rd., Auburndale, FL 33823 USA

Questions or comments? e-mail: tech@seal-krete.com or call 1-800-323-7357

HOW TO TREAT CONCRETE™

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