

DESCRIPTION:

SK-E100 is a two component water-based epoxy system that features ease of application, very low odor and excellent overall coating performance. This material cures blush free over a wide range of temperatures and adheres tenaciously to a variety of substrates including damp or wet concrete.

SK-E100 is used as a general purpose coating for concrete floors and as a primer under epoxy, polyurethane and acrylic materials. The raw material package has a 30 year history of success as a concrete coating. SK-E100 is recommended for coating warehouse and factory floors, coating automotive repair facilities, residential garage floors and for many other commercial and industrial maintenance applications. Because of its ease of application, SK-E100 is an excellent choice for do-it-yourself floor coating projects.

USES:

- General Purpose Concrete Coating
- Primer

CHEMICAL COMPOSITION:

Modified Bisphenol A epoxy resin crosslinked with a water soluble amine adduct.

COLORS:

Available in 16 standard colors, plus clear.

**MOISTURE VAPOR EMISSIONS PRECAUTIONS:**

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM-F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

SURFACE PREPARATION:

Concrete must be cured 7 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Surface may be damp, but standing water should be removed. Concrete should be shot-blasted, acid etched or diamond ground to achieve a minimum 5 mil profile. If acid etched, use of a floor machine with a nylogrit brush is required. Do not allow the etching solution to dry on the concrete. Etched surface must be thoroughly rinsed. Pressure washing after etching is ideal. Do not neutralize with a base material. Carefully follow the guidelines listed in the **Super-Krete Products Surface Preparation Manual**. If surface is prepared by diamond grinding, grind thoroughly to "open up" the surface. Vacuum concrete dust and rinse surface well. Previously coated surfaces must be mechanically cleaned and abraded with steel wool or 80 grit sandpaper.

Super-Krete Products is a Division of Arizona Polymer Flooring, Inc.

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SK-E100 051916



MIXING:

Mix only that amount of material that can be used in a 2-3 hour period. In very hot weather it is advisable to mix smaller batches to ensure good flow and workability. Because color change can occur as mixed material advances into its pot life, when using as a pigmented finish coat, mix only that amount of material than can be used in 1 hour. Premix Part A before blending with Part B. Combining ratio is 4 Parts A to 1 Part B. **Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel. 15-20% water must be added to achieve a low application viscosity. A common mixing ratio is 4A:1B:1water.**

APPLICATION RECOMMENDATIONS & COVERAGE:

SK-E100 is normally applied 200-350 sq. ft. per gallon by brush, roller or airless spray. If using as a primer and trapped air in the substrate creates bubbles, continued rolling will cause them to disappear. SK-E100 should normally be re-coated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time should be allowed before re-coating. If the product cures longer than 72 hours, the surface should be lightly sanded before re-coating. When using a pigmented finish coat, keep a "wet edge" and do not attempt to roll over material that has begun to set as a change in color will result.

SHELF LIFE:

SK-E100 has a shelf life of 1 year when properly stored in an unopened container. Material should be stored at 55°-90° and greater than 50% humidity. Ensure all lids are tightly sealed to ensure the longest lasting shelf-life.

PRECAUTIONS:

- *Handling Precautions:* Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read Safety Data Sheet before using.
- *Slip and Fall Precautions:* OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Arizona Polymer Flooring recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Arizona Polymer Flooring or its sales agents will not be responsible for injury incurred in a slip and fall accident.

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TECHNICAL INFORMATION:

Physical Properties

Mixing Ratio, by Volume	4-1
Solids Content, by Weight	51%
Solids Content, by Volume	43.5%
Volatile Organic Compounds	50 grams/liter
Pot Life (77°F)	2-3 hours

Cure Times (77 degrees)

Dry to Touch	2 hours
Recoat	12-18 hours
Light Traffic	18-24 hours
Full Cure	7 days

**Higher temperatures and lower humidity will accelerate cure times. Lower temperatures and high humidity will lengthen cure time.*

Performance Properties

Gloss (60 degrees)	85-90
Pencil Hardness (ASTM D 3363)	F-H
Adhesion to damp concrete (ASTM D 451)	Concrete fails before loss of bond
Tabor Abrasion – 1000 gm. Load cycles, CS 17 wheel	60-65 mg. loss

CHEMICAL AND STAIN RESISTANCE (ASTM D 1308 24 HOURS IMMERSION):

Coffee	No effect
Vegetable Oil	No effect
Mustard	No effect
Whiskey	No effect
Urine	No effect
Trisodium Phosphate, 25% solution	No effect
Gasoline	No effect
Motor Oil	No effect
Brake Fluid	Slight softening, film recovers
Transmission Fluid	No effect
Mineral Spirits	No effect
10% Sulfuric Acid	No effect
10% Hydrochloric Acid	No effect
10% Acetic Acid	No effect
Xylene	Slight softening, film recovers
MEK	Film destroyed

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LIMITATIONS:

- Exterior pigmented applications will show chalking.
- Exterior clear applications are not recommended.
- Acid etched surfaces must be thoroughly rinsed before coating.
- Not recommended for use over acid stain

WARRANTY:

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

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