

DESCRIPTION:

SK-E400 is a low viscosity, 100% solids resin used in a variety of flooring applications including high build coatings, aggregate filled flooring and decorative epoxy pebble applications. This material cures blush-free and provides an outstanding balance of physical strength, flexibility and chemical resistance. SK-E400 has excellent clarity for use over color quartz aggregate and decorative architectural concrete. The pigmented material features high pigment loading for good substrate hide and color consistency when roller applied.

SK-E400 has considerably lower viscosity than most competitive products providing improved handling at cooler temperatures and exceptional troweling characteristics. The lower viscosity allows for the addition of fine silica fillers for easy application of "slurry" type floors. A fast cure hardener is available when cold weather cure down to 40°F or accelerated room temperature cure is required.

The versatility of SK-E400 makes it ideal as a primer, finish coat or aggregate binder in a wide variety of flooring applications in areas requiring high performance flooring.

USES:

- Epoxy Primer
- Finish Coat
- Aggregate Binder

CHEMICAL COMPOSITION:

Modified Bisphenol A epoxy resin, cross-linked with aliphatic and cycloaliphatic polyamines.

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 30 days and be clean, dry, and structurally sound. If using damp surface hardener, surface may be damp but with no visible water. Surface must be shot blasted, diamond ground or acid etched to achieve an ICRI profile of CSP3 or greater. A properly prepared surface will have the texture of 80-100 grit sandpaper. If the surface is diamond ground, use 20-30 grit diamonds and vacuum the floor twice to remove concrete dust. Excessive dust in the pores of the concrete can compromise adhesion. **If acid etched, machine scrubbing is required.** Adhere strictly to guidelines listed in the **Super-Krete Products Surface Preparation Manual**. Previously coated surfaces must be mechanically cleaned and abraded with 80-100 mesh sandpaper prior to application.

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

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SK-E400 032717



APPLICATION RECOMMENDATIONS & COVERAGE:

SK-E400 may be applied by roller, trowel or squeegee. When applied as an unfilled system, SK-E400 may be thinned with up to 15% Acetone, MEK or Glycol Ether EP. Product must be thinned 10-15% when using as a re-glaze material for epoxy pebble system. If using thinned product, keep application rate above 200 sq. ft. per gallon. The addition of solvent may slow the cure somewhat. **If using in aggregate filled flooring, do not add solvent.**

SHELF LIFE:

SK-E400 has a shelf life of 1 year when properly stored in an unopened. Material should be stored at 55°-90° and no greater than 50% humidity. Ensure all lids are tightly sealed to ensure the longest lasting shelf-life.

PRECAUTIONS:

- *Handling Precautions:* Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. 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	2-1
Solids Content	100
VOC	None
Viscosity, cps (Clear Material, 77 degrees)	250
Pot Life, Regular Cure (77 degrees, 1 quart mass)	35 minutes
Pot Life, Fast Cure (77 degrees)	18 minutes
<i>*Pot life is reduced by increasing mass and/or temperature.</i>	

Cure Times (77 degrees)			
Regular Cure		Fast Cure	
Dry to Touch	6 hours	Dry to Touch	3 hours
Light Traffic	16 hours	Light Traffic	7 hours
Full Cure	7 days	Full Cure	5 days

Cure Times (50 degrees)	
Fast Cure	
Dry to Touch	18 hours
Light Traffic	30 hours
Full Cure	14 days

**Cure times are influenced by both the ambient air temperature and the temperature of the concrete.*

Performance Properties	
Tensile Strength, psi (ASTM D-638)	6,230
Ultimate Elongation, % (ASTM D-638)	11
Compressive Yield Strength, psi (ASTM D-695)	9,850
Ultimate Compressive Strength, psi (ASTM D-695)	19,501
Ultimate Flexural Strength, psi (ASTM D-790)	9,680
Hardness, Shore D (ASTM D-2240)	78
Bond Strength to Concrete (ASTM D-4541)	Concrete fails before loss of bond

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

Vegetable Oil	No effect
Mustard	No effect
Urine	No effect
Gasoline	No effect
Motor Oil	No effect
Transmission Fluid	No effect
Brake Fluid	Slight Softening, film recovers
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:

- Must be applied to a clean, dry surface.
- Exterior pigmented applications will show chalking
- Should be applied with aggregate fillers in flooring applications where impact or mechanical abuse is anticipated.
- Not recommended for areas that receive constant corrosive exposure.

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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