SK-P250 VOC

TECHNICAL DATA SHEET

DESCRIPTION:

SK-P250 VOC is a two component, low viscosity acrylic urethane. It is used as a primer/sealer over a variety of surfaces. The use of special solvents and adhesion promoters gives this material excellent penetration and adhesion to minimally profiled concrete. SK-P250 VOC is U.V. stable for use in exterior applications, cures rapidly and is easily recoated with both solvent-based and water-based polyurethanes. When used as a finish coat, this material gives a hard, high gloss surface that offers excellent stain resistance and easy cleanability. Compared to solvent-based acrylic sealers, SK-P250 VOC offers substantial improvements in initial gloss, gloss retention and overall performance. SK-P250 VOC is available in a satin finish if a lower gloss is desired.

SK-P250 VOC has been designed for use over concrete, acid stained surfaces, and various types of architectural concrete. Its performance as a paver sealer is unexcelled. It is especially suitable over acid stained concrete because it is unaffected by pH drifts that can affect the adhesion of other types of primers. When used over acid stains or integrally colored concrete, it gives color enhancement similar to solvent acrylic sealers. SK-P250 VOC can also be used as a tie coat over difficult to adhere to surfaces such as polyester urethane. When used as a finish coat in vehicle areas, it resists tire tracking and provides easy soil release. Although abrasion resistance to heavy foot traffic far exceeds single component materials, the best performance in these areas is achieved with polyester urethanes such as SK-P100, SK-P100 VOC or SK-P501.

USES:

- High Performance Sealer
- Applications that require low VOC
- Paver Sealer
- Primer
- Tie Coat

CHEMICAL COMPOSITION:

Acrylic oligomer crosslinked with aliphatic isocyanate. System modified with U.V. absorbers, hindered amine light stabilizers and a proprietary adhesion promoter.

COLORS:

Available in clear only.

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:

Although SK-P250 VOC has adhesion capabilities to challenging substrates, always profile the substrate as well as possible. Whenever possible acid etch the surface using a floor machine with a nylogrit brush. Refer to the ***Super-Krete Products Surface Preparation Guide*** for surface preparation information. If acid etching is not possible, clean the surface with a floor machine and nylogrit brush using S-12000 Heavy Duty Degreaser. Do not let detergent residue dry on the concrete. Rinse well. Acid stained surfaces must be scrubbed with APF Super Base Neutralizer, 8 oz. to 4 gallons of water. Rinse well and allow to dry overnight.

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

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MIXING:
Mix only that amount of product that can be used in a two-hour period at 77°F. Higher temperatures reduce pot life. The combining ratio is 2 parts A to 1 part B. **Proportion the amounts carefully and mix for one full minute using a low speed drill, scraping the bottom and sides of the mixing vessel.** Avoid contamination with moisture. Reseal partially used containers completely after use.

APPLICATION RECOMMENDATIONS & COVERAGE:
SK-P250 VOC may be applied by brush, roller, or airless sprayer. If rolling the material, use a ½" roller cover, work out of a 5 gallon pail or roller pan using the dip and roll method. Do not pour the material onto the floor. Because the material dries quickly, apply liberally and work small areas. Application rate should be 200-300 sq. ft. per gallon. **Do not over-apply or allow to puddle as solvent entrapment may occur. Do not use solvent acrylic sealers as a primer for this material.**

RE-COATING GUIDELINES:
SK-P250 VOC has an indefinite re-coat window when being re-coated with itself. If re-coating with SK-P100 and more than 24 hours has elapsed, reduce the material with approximately 15% acetone (1 pint acetone to 1 gallon of mixed material). If re-coating the SK-P250 VOC with SK-P501 and more than 24 hours elapses, de-gloss the surface using a floor machine and a black janitor pad. Following these procedures will ensure good inter-coat adhesion.

SHELF LIFE:
SK-P250 VOC has a shelf life of 1 year when properly stored in an unopened container. 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:* Material is flammable. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation or appropriate cartridge type respirator. 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, by Weight	38%
Volatile Organic Compounds	38 grams/liter
Pot life (77 degrees(	1 hour

Cure Times (77 degrees)	
Recoat	90 minutes
Light Traffic	4 hours
Vehicle Traffic	3 days

Performance Properties	
Gloss (60 degrees)	90
Hardness (Konig)	127
Flexibility (ASTM D 222)	Passes 1/8 inch
Impact Resistance (ASTM D 2794)	Passes 3/8 inch-pounds direct impact
Tabor Abrasion (1000 gm. Load cycles, CS 17 wheel)	69 mg. loss
Adhesion to concrete (ASTM D 451)	Concrete fails before loss of bond

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
Gasoline	No effect
Motor Oil	No effect
Brake Fluid	No effect
Transmission Fluid	No effect
Skydrol	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:

- Use over dense, minimally profiled surfaces requires machine scrubbing with a nylogrit type brush.
- Do not use solvent acrylic as a primer for SK-P250 VOC.
- Applications heavier than 200 sq. ft. per gallon or puddling may result in solvent entrapment and possible blistering.
- Do not use the satin material over an unprimed surface.

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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