

**DESCRIPTION:**

SK-P501 is a high solids, two component, water-based aliphatic polyurethane. This unique material provides performance properties equal to conventional solvent-based catalyzed urethanes without the associated health and environmental problems. SK-P501 is VOC compliant in California. It offers substantial performance improvements over first generation catalyzed water-based polyurethanes, including higher film build capabilities, improved chemical resistance and resistance to hot tire staining.

SK-P501 gives hard, durable coatings that feature good gloss, easy cleanability and superior abrasion resistance. Resistance to yellowing from U.V. light is excellent. For exterior desert applications, a special UV absorber package can be incorporated to ensure long-term chalk resistance and gloss retention.

SK-P501 has been developed as a high performance finish coat for various seamless flooring, coating, and architectural concrete applications where odor cannot be tolerated. It is the ideal top coat for areas that require maximum gloss retention, ease of cleaning, and resistance to heavy foot traffic. Typical areas of application would include clean rooms, hospitals, concrete counter tops and high traffic retail areas. SK-P501 is also suitable for aircraft hangars, automotive repair facilities and garage floors. It is available in a satin finish.

**USES:**

- Exterior Applications requiring UV protection
- High performance finish coat
- Top coat for areas requiring high gloss retention
- Ideal for areas requiring low odor/low VOC

**CHEMICAL COMPOSITION:**

Hydroxyl functional resin dispersion crosslinked with aliphatic polyisocyanate.

**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:**

Surface must be clean, structurally sound and free of chalk, wax, loose paint or curing compounds. Application over concrete requires the use of a primer. Previously coated surfaces must be mechanically cleaned and abraded with 100 grit sandpaper or sanding screen to ensure inter-coat adhesion.

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

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[www.super-krete.com](http://www.super-krete.com)

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**MIXING:**

Mix only that amount of material that can be used in a 3 hour period at 77°F. Higher temperatures reduce work time. In hot weather, it is advisable to mix smaller batches. Premix part A before adding part B. Mixing ratio is 2 parts A to 1 part B. **Add part B slowly while mechanically agitating part A with a slow speed drill. Mix for 2 full minutes until completely homogenized. Material cannot be properly mixed by hand. Use a small "squirrel cage" mixer for mixing small amounts.**

**THINNING:**

Material is normally applied as received but may be thinned with water up to 10% during application to keep a low viscosity. **Any reduction water must be added after part A and B have been drill mixed.**

**APPLICATION RECOMMENDATIONS & COVERAGE:**

SK-P501 should be applied 200-350 sq. ft. per gallon by brush, roller or airless sprayer. Do not allow to puddle or accumulate in joint areas. Applications heavier than 200 sq. ft. per gallon will create bubbles in the cured coating. If multiple coats are required, and the material has cured for more than 24 hours, de-gloss with a black janitorial pad or fine sanding screen.

**SHELF LIFE:**

SK-P501 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:* 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	2-1
Solids Content, by Weight (Clear)	52%
Solids Content, by Weight (Pigmented)	64%
VOC, grams/liter	94
Pot Life (77 degrees, 1 quart mass)	3 hours
Pot Life (95 degrees, 1 quart mass)	50 minutes
<i>*Pot life is reduced by increasing mass and/or temperature.</i>	

Cure Times (77 degrees, 39% R.H.)	
Recoat	6 hours
Light Traffic	12 hours
Full Cure	18 hours

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

Performance Properties	
Gloss (60 degrees, clear material)	90
Pendulum hardness, sec (ASTM D-4336)	175
Tabor Abrasion (1000 gm. Load 1000 cycles, CS 17 wheel)	39 mg. loss

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

Urine	No effect
Blood	No effect
Betadine	No effect
Whiskey	No effect
Black Ink	No effect
Brake Fluid	No effect
Gasoline	No effect
Skydrol	No effect
Xylene	No effect
MEK	No effect
50% Sodium Hydroxide	No effect
25% Hydrochloric Acid	No effect
25% Sulfuric Acid	No effect
25% Acetic Acid	No effect

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**LIMITATIONS:**

- Material must be mixed mechanically for proper performance.
- Application rate must be kept above 200 sq. ft. per gallon to avoid curing bubbles that occur in thicker applications.
- Applications over textured surfaces such as trowel-knockdown polymer concrete must be done with a 3/4" nap roller and pulled tightly to avoid leaving excessive product in recessed areas.
- Work life is considerably shortened over 90 degrees F.
- Do not apply material if the humidity is over 90% and ventilation is poor. Improper cure will result.

**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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