SK-P7500 VOC

TECHNICAL DATA SHEET

DESCRIPTION:

SK-P7500 VOC is a two component, high solids, aliphatic Polyaspartic. This unique new resin chemistry has provided the raw materials to formulate this coating that gives the desirable properties of polyester-polyurethane materials with shorter cure time and less film thickness limitations. SK-P7500 VOC is a low viscosity, easy to handle product that gives very high gloss finishes that are both hard and abrasion resistant. This material releases soil easily and has excellent resistance to a broad range of chemicals. Unlike conventional polyurea materials, SK-P7500 VOC has enough work time to be applied by brush and roller. It is very rapid curing and can be returned to full service in 24 hours. For exterior applications, a UV stabilizer package is incorporated to ensure long-term gloss retention and resistance to yellowing.

SK-P7500 VOC was developed as a high performance coating for various protective coatings and seamless flooring applications. SK-P7500 VOC is ideally suited for use as a finish coat in color chip and color quartz flooring, automotive repair facilities, aircraft hangars, clean rooms and various types of decorative architectural concrete applications.

USES:

- High performance finish coat
- Protective coating
- Low VOC
- Interior & Exterior applications
- Resistance to yellowing with UV stabilizer package

CHEMICAL COMPOSITION:

Hydroxyl functional polyaspartic crosslinked with aliphatic isocyanate.

COLORS:

Available in clear only, product may be tinted with 7500 pigment packs

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, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be shot-blasted, or diamond ground to achieve a minimum 5 mil profile. If more than 12 hours has elapsed between coats or the coating cannot be indented with a fingernail, abrade surface with 80-100 grit sandpaper or screen to ensure inter-coat adhesion.

Super-Krete® Products is a Division of Arizona Polymer Flooring, Inc.
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4,170⊠

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MIXING:

The mixing ratio is 1 Part A to 1 Part B by volume. **Mix for 1 full minute using a slow speed drill, scraping the bottom and sides of the mixing container.** Mix only that amount which can be applied within 20 minutes. Additional solvent may be added up to 10% to further lower the application viscosity and extend the work time. Acetone is the recommended solvent.

APPLICATION RECOMMENDATIONS & COVERAGE:

SK-P7500 VOC is a very reactive material and requires special application techniques. It may be brushed, rolled or sprayed using plural component spray equipment. Easy application is accomplished by pouring the freshly mixed product on the floor, spreading to the desired thickness with a rubber squeegee, and finish rolling immediately with an 18" roller. The mechanic rolling the material should wear spiked shoes to walk on the wet material. Because the material sets quickly, change roller covers every hour. Application of the material must be done immediately after mixing. On large jobs, be sure to have enough mechanics to keep a wet edge. Application rate should be kept above 160 sq. ft. per gallon (10 mils). **Thicker films may entrap solvent or cause CO_2 bubbles. If allowed to puddle, CO_2 bubbles will appear as frosted areas**.

SHELF LIFE:

SK-P7500 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-li fe.

PRECAUTIONS:

- *Handling Precautions:* Use only with adequate ventilation/or a cartridge type respirator designed to be used for isocyanates. 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 Floorings 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	1-1
Solids Content, by Weight	77%
Solids Content, by Volume	75%
V.O.C.	0 gms/ltr.
Viscosity, cps (77 degrees)	450
Pot Life (77 degrees, 25% R.H.)	20 minutes

** Pot Life is reduced by increasing humidity and/or temperature.*

Cure Times (77 degrees, 25% R.H.)	
Dry to Touch	1 hour
Light Traffic	4 hours
Vehicle Traffic	24 hours
Full Chemical Resistance	72 hours

Performance Properties	
Gloss (60 degrees)	95
Hardness (Pendulum)	172
Adhesion to concrete (ASTM D 451)	Concrete fails before loss of bond
Tabor Abrasion – 1000 gm. Load cycles, CS 17 wheel	36 mg. loss

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

Urine	No effect
Blood	No effect
Whiskey	No effect
Black Ink	No effect
Brake Fluid	No effect
Gasoline	No effect
Skydrol B-4	No effect
Hydraulic Fluid #83282	No effect
Mineral Spirits	No effect
Xylene	No effect
MEK	Film softened
25% Sodium Hydroxide	No effect
25% Hydrochloric Acid	No effect
25% Sulfuric Acid	No effect
25% Acetic Acid	No effect
25% Nitirc Acid	Film blistered

LIMITATIONS:

- Do not allow to puddle. Film thickness must not exceed 10 mils.

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.