Color Stain™ 501 System

APPLICATION INSTRUCTIONS

SUPER-KRETE PRODUCTS REQUIRED:

- **S-12000 Heavy Duty Degreaser™**
- **S-1300 Pene-Krete®**
- **S-9500 Color Stain™**
- **SK-P501 Clear Gloss or Clear Satin or SK-P501 VOC Clear Gloss or Clear Stain**
- **Acetone (virgin not recycled)**
- **Airless Sprayer (optional), with 190 mesh paint strainer**
- **Hudson Heavy-Duty Acetone Sprayer (optional) with 190 mesh paint strainer**
- **Sponge (Optional)**
- **Mixing Vessels or Pails**
- **Variable Speed Drill**
- **Roller-Pans**
- **Roller Frames**
- **Solvent and Shed Resistance 3/8" Rollers or 1/2" Rollers**
- **Jiffy type paddle mixers**
- **Misting Water Sprayer**
- **Soft tip broom**
- **Mil Gauge**

COLOR STAIN 501 SYSTEM

S-9500 Color Stain is for staining Portland Cement Concrete and Cementitious Overlayments. It is water based acrylic urethane emulsion designed for ease of application at 150 - 300 square feet per gallon per coat. For best results apply two to three coats. S-9500 Color Stain is available in 20 standard colors providing aesthetic looks when used on new and old surfaces. Please refer to the S-9500 Color Stain Color Chart.

S-9500 Color Stain is a translucent stain that allows the natural look of the surfacing to show through, unlike paint that covers up the natural surface. It is environmentally friendly and provides a similar look to acid stain without the hazards, toxicity and special handling during installation.

SK-P501 (Clear Gloss or Clear Satin) is a two component, high solids, ultra violet light stable, VOC compliant, abrasion, wear and chemical resistant aliphatic polyester urethane top coat. Apply at a rate of 200 - 350 square feet per gallon per coat. It conforms to VOC requirements in all major government agencies in the USA and Canada.

If ADA (Americans with Disabilities Act) skid resistance is required, select aggregates can be added to SK-P501.

SK-P501 will enhance and protect S-9500 Color Stain's look making the colors "pop" while sealing the system and making it impervious to moisture from above and stain resistant.

Note: Natural and man-made defects, stains and other blemishes in the substrate may reflect through the translucent Color Stain 501 System.

SYSTEM LIMITATIONS

- Color Stain and SK-P501 should be applied only when surface temperature is at or above 450F and rising, and not above 1000F.
- Do not apply when precipitation (rain or heavy mist/dew/fog) is expected within 24 hours following placement.
- Do not allow installed material on a surface that will freeze within 24 hours following placement.

SYSTEM SURFACE PREPARATION

1. All existing concrete or cementitious overlay surfaces must be structurally sound, solid and completely clean.
2. Remove all sealers, curing compounds, form releases, curing agents, dust, dirt oil and other contaminants that may act as a bond-breaker.
3. New concrete must be allowed to cure for 28 days.
4. Review and follow Super-Krete Products Surface Preparation Guide for required surface preparation procedures.

CRACK TREATMENT

Please refer to the ***Super-Krete Products Crack Repair Guide***.

SYSTEM MOCK-UP

1. Before applying the Color Stain 501 System on the entire job it is best do apply a mock-up to make sure the desired color and gloss is obtained.
2. The S-9500 Color Stain Color Chart is only a guide.
    a. Staining concrete is an art, not a science since concrete gray varies in color from batch to batch. The end color will be affected by the color and texture of the concrete surface the stain is applied to, the varying porosity of the concrete, the number of coats of S-9500 Color Stain applied and the choice of SK-P501 Clear Gloss or Clear Satin top coat.
    b. Color Stain over S-9304 Micro-Bond, S-9300 Bond-Kote and S-1800 Super-Stamp offers a more uniform surface to stain, however different textures, number of coats of S-9500 Color Stain applied and the choice of SK-P501 Clear Gloss or Clear Satin top coat may change the overall appearance.
3. The SK-P501 Clear Gloss will provide a "glossy wet look", while the SK-P501 Clear Satin will provide a somewhat duller opaque look.

Note: Once a penetrating stain is down there is no going back. Unlike surface paints that can be removed a penetrating stain is impossible to remove.

S-9500 COLOR STAIN MIXING

1. Create a designated mixing area that protects all surrounding surfaces.
2. Color Stain raw materials will separate and settle, therefore immediately prior to using, thoroughly mix the jug by vigorously shaking it or mix with a Jiffy type mixing paddle to ensure that all raw materials are thoroughly re-dispersed.
3. When spraying, pour S-9500 Color Stain through a 190 mesh paint strainer before pouring into a sprayer.

S-9500 COLOR STAIN PLACEMENT

1. Mask securely all areas that need to be protected, such as walls, cabinets, plants and surface areas that will be stained with a different color.
2. Decide on patterns ahead of time and layout decorative designs, shapes, outlines, etc. carefully before starting to apply S-9500 Color Stain.
3. The average coverage rate is estimated at 150 - 300 square feet per gallon per coat. Coverage rates will vary due to substrate conditions, surface porosity and method of application.
4. Do not dilute.
5. Pre-dampen the surface to Saturated Surface Dry (SSD), with no surface puddling of water. Do not soak the surface, a misting of water prior to placement is usually adequate.
6. When applying with an airless sprayer or Hudson Heavy-Duty Acetone Sprayer always filter S-9500 Color Stain before pouring it into a sprayer. Set airless sprayer at the lowest pressure setting and use nozzle of sufficient size to minimize atomization.
7. Apply S-9500 Color Stain in a light even coat (150 - 300 square feet per gallon) and immediately spread it with a soft tipped broom.
8. When applying two different colors of S-9500 Color Stain apply the lighter or brighter colors first and then highlight the areas as desired with the darker colors.
9. When highlighting or contrasting an area with S-9500 Color Stain, avoid color bleed from the previous color by making sure that the previous color has fully dried (1 to 2 hours) before applying highlighting or contrasting color.
10. When creating a "marbleized look" dampen the surface between each coat, soft tip broom and lightly mist with water. The light misting will remove most broom lines and will assist in creating the marbleized look.
11. Enhance the surface by adding color.

SK-P501 TOP COAT

SK-P501 (Clear Gloss or Clear Satin) is a two component, high solids, ultra violet light stable, VOC compliant, abrasion, wear and chemical resistant aliphatic polyester urethane top coat. Apply at a rate of 200 - 350 square feet per gallon per coat. It conforms to VOC requirements in all major government agencies in the USA and Canada.

SURFACE PREPARATION

Provided the S-9500 Color Stain has just been placed and allowed to fully cure, no additional surface preparation is required and the SK-P501 can be placed if the surface is free of contaminants.

SK-P501 MIXING

1. Always pre-mix each component (A Component and B Component) when using less than a full unit of each, since raw material may separate.
2. Pour the proper ratio of each component in to a clear mixing pail and mix with a variable speed drill at a low speed with a Jiffy type paddle for two to three minutes. Be careful not to mix air into the material. Avoid creating a vortex or raising the paddle out and back into the product.
3. A Jiffy type mixer will allow the sweeping of the walls and bottom of the pail to ensure all material is uniformly mixed. Unlike propeller type mixers the Jiffy type mixer impeller will not gouge the plastic and entraining plastic particles in the mix.

   Note: Do not use the Squirrel Mixer since they will entrain more air than the product can release before placement.

4. SK-P501 Clear Gloss can be diluted with up to 15% - 50% with virgin acetone for ease of application, reduce viscosity and a slight increase of pot life.
5. SK-P501 Clear Satin should be diluted with 10% to 25% with virgin acetone for ease of application, reduced viscosity and an increase of pot life. SK-P501 Clear Stain must be placed on SK-P501 Clear Gloss.

SK-P501 PLACEMENT

1. SK-P501 can be placed directly over recently placed fully cured S-9500 Color Stain without a primer. If the S-9500 Color Stain has been in place and subjected to wear it is recommended to prime the surface with SK-P501.
2. Do not pour directly on the surface.
3. Apply using a "dip and roll technique". Pour the properly mixed SK-P501 into a roller pan and dip a 3/8 to1/2 inch nap solvent resistant roller and roll the material on the surface at a rate of 200 - 350 square feet per gallon per coat.
4. Coverage rate will vary depending on surface texture and roller material load.
5. To avoid lap lines. Always roll into a wet edge going one direction, such as north to south. Place material between natural breaks, such as control or expansion joints and back-roll in the opposite direction, such as east to west.
6. Avoid rolling fresh material into tacky material.
7. To remove lab lines in un-tacky material and achieve uniformity wear strap-on shoe spikes and cross roll material.

COLOR STAIN 501 SYSTEM CURE TIME

1. Allow the final coating of SK-P501 to cure for at least 48 hours prior to opening it to foot traffic and 7 days before opening to vehicular traffic.
2. SK-P501 VOC Clear Gloss and VOC Clear Satin are VOC compliant with all Federal, State and Regional Requirement

VOC (Volatile Organic Compound) COMPLIANCE

Meets U.S.E.P.A 40 CFR 59 Subpart C & D; CARB: California Air Resource Board; LADCO: Lake Michigan Air Directors Consortium (Illinois, Indiana, Michigan, Wisconsin); MRPO: Midwest Regional Planning Organization (Illinois, Indiana, Michigan, Ohio, Wisconsin); SCAQMD: South Coast Air Quality Management District (Los Angeles, Orange, Riverside, San Bernardino Counties); and CEPA/EC: Canada Environmental Protection Agency/Environment.

LIMITATIONS

Arizona Polymer Flooring does not warrant against cracks returning or other Acts of nature.

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