



Product Data Sheet

SURFACE GUARD

GENERIC TYPE: Single component water-based cross-linking acrylic coupled with a polyurethane polymer

GENERAL PROPERTIES: is a technologically advanced water-based guard for Smith's Decorative Concrete Products installations including burnished/polish installations, rockscapes and underwater applications. The hardness of the acrylic combined with the resilience of the polyurethane results in water impermeable protective film with exceptional abrasion/wear resistance.

- Gloss/Low Sheen
- Water submersion
- Infinite inter-coat adhesion
- UV Light Resistant
- Fast cure time
- Non-yellowing
- Good blush resistance
- Low VOC

RECOMMENDED USE: Applied as a film forming guard for Smith's Decorative Concrete Products installations.

COLORS: Clear only

PERFORMANCE PROPERTIES:

Exposure Time	1 hour	4 hours	24 hours
Ketchup	Excellent	Excellent	Excellent
Mustard	Excellent	Excellent	Good
Pickle Juice	Excellent	Excellent	Good
Red Wine	Excellent	Excellent	Excellent
Cola	Excellent	Excellent	Excellent
Vinegar	Excellent	Good	Poor

VOLATILE ORGANIC CONTENT: 99 grams/liter

SPECIFICATION DATA

CURE TIMES: (73°F, 50% RH)

Dry Time	15-30 minutes*
Recoat	15-30 minutes*
Full Cure	24 hours

SOLIDS CONTENT:

Smith's Surface Guard (by weight) 25%

COVERAGE PER GALLON:

Spray Application	250-300 square feet
Burnish Application	600-1000 square feet

NOTE: Coverage depends on surface porosity and profile.

STORAGE CONDITIONS:

Temperature: 40-90°F

SHELF LIFE:

Unopened Container 1 year

GLOSS: Gloss / Low Sheen

ORDERING INFORMATION

Prices may be obtained from Smith Paint Products, Sales Representative or local Smith's Decorative Concrete Products Dealer.

FLASH POINT:

Smith's Surface Guard >212°F

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Polish/Burnish - Application Instructions

SURFACE GUARD

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. These instructions should be followed closely to obtain the maximum service from the product.

AREA PREPARATION: Be sure to mask or cover all areas that are not intended to be treated with Smith's Surface Guard including but not limited to door frames, doors, walls and windows.

APPLICATION:

- 1) After stain has been burnished with high speed buffer in conjunction with diamond encrusted pads (400 grit through 3000 grit) or Smith's Liquid Dye has been polished (400 through 3000 grit), sweep or vacuum surface thoroughly removing all loose particulates or other foreign materials.
- 2) Dampen micro-fiber pad/mop in clean water then wring it out thoroughly.
- 3) Pour a modest amount of Smith's Surface Guard onto the intended application surface.
- 4) Place applicator on the substrate, apply Surface Guard to an area of 50-100 square feet. Do not try to apply product to a large area with a limited amount of Surface Guard. Keeping the motion of the applicator gentle will limit the agitation and prevent bubbles. Try not to make more than 1 or 2 passes with the applicator over an area. This will reduce the possibility of streaking and uneven gloss. As Surface Guard is applied, it should appear uniformly wet and without puddles.
- 5) Allow Surface Guard adequate time to dry to the touch.
- 6) After Surface Guard is dry to the touch, re-apply Smith's Surface Guard following steps 1-4.
- 8) Allow second application to cure for 12 hours. For increased gloss, burnish treated area with high speed buffer in conjunction with a white pad.

Note: High humidity and lower temperatures will lengthen cure time.

MIXING INSTRUCTIONS: For optimum performance, gentle mixing or agitation is recommended.

CAUTION: DO NOT MIX EXCESSIVELY.

APPLICATION METHOD: Smith's Surface Guard should be applied via a micro-fiber pad/mop. Application rate should be 600-1000 sq. ft. per gallon. Do not over-apply or allow excess puddles.

RECOATING: Clean surface with neutral cleaner before re-application

MAINTENANCE: The application of Smith's ME-1000 Acrylic Polish may be applied as a sacrificial coat for increased gloss and slip resistance.

MOISTURE/ALKALINITY: The absence of an effective moisture vapor barrier may create an environment for moisture vapor transmission as well as high levels of alkalinity in concrete slabs (generally, but not limited to interiors). Introducing an impermeable coating/flooring system to this environment may result in blistering or general failure. Thus, a calcium chloride test (ASTM F-1869) and/or relative humidity probe (ASTM 2170) should be conducted and is the responsibility of the installer. Smith Paint Products is not responsible for failures due to the presence of moisture vapor emissions and/or high levels of alkalinity.

SLIP RESISTANCE: Smith Paint Products recommends the use of angular slip-resistant aggregate in all coatings that may be exposed to wet, oily or greasy conditions as well as any condition where increased traction may be necessary. It is the contractor and end users' responsibility to determine the appropriate traction needs and footwear necessary for the conditions as well as setting performance parameters prior to beginning the application, testing to determine parameters have been met upon completion to achieve the end users documented safety standards.

Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.

APPLICATION DIRECTIONS:

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>	<u>Humidity</u>
Best	60-85°F	65-85°F	65-90°F	10-60%
Minimum	50°F	50°F	50°F	0%
Maximum	95°F	95°F	95°F	80%

CURE TIMES: (optimal)

<u>Temperature</u>	<u>Relative Humidity</u>	<u>Full Cure</u>
73°F	50%	24 hours

Smith's Surface Guard dries quickly. Drying times may be extended depending on application rate, temperature, humidity and project conditions. Restrict foot traffic for at least six hours. Twelve hours is preferred.





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CLEAN UP: While Smith's Surface Guard is still wet, equipment may be cleaned with soap and water. Once dried, the material may be removed with a solvent, such as Acetone or Toluene.

KEEP FROM FREEZING. Do not dilute. Do not apply when air, material and surface temperatures are expected to fall below 40° F (4° C) within four hours of completed application.

Do not use on non-porous surfaces, e.g. VCT, terrazzo, marble, etc. The specifier and user shall determine the suitability and assume all responsibilities therewith.

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Spray - Application Instructions

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AREA PREPARATION: Be sure to mask or cover all areas that are not intended to be stained or sealed including but not limited to door frames, doors, walls and windows.

SURFACE PREPARATION: The surface preparation phase of "Staining a Concrete Floor" should be viewed as the most important. Proper floor preparation results in the product's longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished floor.

APPLICATION TO BARE CONCRETE:

- 1) Remove paint, adhesives and loose particulates from the intended application surface.
- 2) Liberally apply Smith's Green Clean to a 20 feet x 20 feet section of the substrate with ½ inch nap roller cover.
- 3) Allow the gel to remain on the substrate for 20 minutes.
- 4) For exterior application, utilizing a 12,000 work units* pressure washer in conjunction with a 15 degree tip, remove the Smith's Green Clean with overlapping line patterns. For interior surface preparation, agitate Smith's Green Clean utilizing a floor buffer (small area) or an auto-scrubber (large area) with Mal-grit brush attachments while rinsing with clean water. Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear.
- 6) Allow surface to dry.
- 7) Perform a "Tape Test".

*Work Units = Gallons per minute x PSI

Note: If additional profile is desired, reapply Smith's Green Clean following the previous directions.

Tape Test

A tape test will help determine the effectiveness of the cleaning process. After the floor has been thoroughly scrubbed, rinsed and allowed to dry; apply several 1 foot strips of high quality 2" clear packaging tape to various locations on the floor. Aggressively press the tape onto the floor with the heel of your hand. Fold one end of the tape into itself and pull it off of the floor as vigorously as possible. Examine the adhesive layer in a bright light looking for residue that was pulled from the floor. Little to no dust or other foreign

particles should be visible. Areas with visible foreign material need to be rinsed again until the surface is free of these contaminants.

APPLICATION TO STAINED CONCRETE: After allowing a full cure* (minimum 12 hours) time for Smith's Color Floor, Color Wall or Color Accents, remove all loose particulate utilizing a leaf blower. If standing water is present, remove excess water with cloth or squeegee. Allow substrate to dry before application of Smith's Surface Guard.

* High humidity and lower temperatures will lengthen cure time.

MIXING INSTRUCTIONS: For optimum performance, gentle mixing or agitation is recommended. Surface Guard – Low Sheen must be mixed to suspend flattening agent.

CAUTION: DO NOT MIX EXCESSIVELY.

APPLICATION METHOD: Smith's Surface Guard may be applied via brush, roller, pump up, HVLP or airless spray.

SPRAY APPLICATION: A typical pump up sprayer provides an easy, economical method of application. Spray on in a fine, fog pattern, without spurts or dribbles, to form a thin, continuous film. AVOID PUDDLING in low areas. If puddles occur, brush or roll them out. For added protection and a greater sheen on concrete, we recommend two coats of Smith's Surface Guard. Additional coats may be applied after the first coat has thoroughly dried.

ROLLER APPLICATION: Use a 1/2 inch (heavy texture) or 3/8 inch non-shed roller cover. Smith's Surface Guard can be rolled onto stained substrate via a 5 gallon pail or roller pan utilizing the dip and roll method. Material should not be poured onto the stained substrate due to the rapid cure. Because the material dries quickly, apply liberally and work small areas. Application rate should be 300 sq. ft. per gallon. Do not over-apply or allow excess puddles.

BRUSH APPLICATION: Utilize traditional bristle brush application for corners, control joints and other hard to reach places.

RECOATING: Smith's Surface Guard has indefinite inter-coat adhesion. Allow initial coat to thoroughly dry (4-24 hours) before applying additional coat.





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Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.

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Best	60-85°F	65-85°F	65-90°F	10-60%
Minimum	50°F	50°F	50°F	0%
Maximum	95°F	95°F	95°F	80%

Note: Do not apply sealer when substrate has direct sun (high noon).

CURE TIMES: (optimal)

	<u>Relative</u>		<u>Light</u>	<u>Wheel</u>
<u>Temperature</u>	<u>Humidity</u>	<u>Recoat</u>	<u>Traffic</u>	<u>Traffic</u>
73°F	50%	4 hours	6 hours	24 hours

Smith's Surface Guard dries quickly. Drying times may be extended depending on application rate, temperature, humidity and project conditions. Restrict foot traffic for at least six

hours. Twelve hours is preferred. 48 hours before water submersion.

CLEAN UP: While Smith's Surface Guard is still wet, equipment may be cleaned with soap and water. Once dried, the material may be removed with a solvent, such as Xylene or Toluene.

PRECAUTIONS:

KEEP FROM FREEZING. Do not dilute. Do not apply when air, material and surface temperatures are expected to fall below 40° F (4° C) within four hours of completed application.

DO NOT MIX "WATER-BASE" COMPOUNDS WITH ANY COMPOUND CONTAINING SOLVENT.

Do not use on dense or non-porous surfaces, i.e., brick, stone, etc. The specifier and user shall determine the suitability and assume all responsibilities therewith.

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