

AQUALON SP-450

PRODUCT CODE: 010-ASP45

SODIUM SILICATE-SILICONATE POLYMER CONCRETE FLOOR DENSIFIER

PRODUCT DESCRIPTION

Aqualon SP-450 is a water based blend of 100% active sodium silicate and silicate polymers that penetrate the surface to increase density, hardness, and strength of the concrete. Those properties reduce dusting, tire marks, and maintenance on the surface. **Aqualon SP-450** penetrates deeply into the surface filling the pores and capillaries of the concrete and reacting with the free lime and calcium carbonate therefore yielding a protected, hardened, and dense floor.

BENEFITS/FEATURES

- ◆ VOC Compliant, no fumes, and odorless formula for easy indoor use.
- ◆ Effective on new and old concrete surfaces and very easy to maintain.
 - ◆ Yields a UV stable surface resistant to abrasion and scuffing.
 - ◆ Waterproofs the surface without leaving a film.

RECOMMENDED APPLICATIONS

Aqualon SP-450 is recommended for mechanical concrete polishing systems as well as broom finished, trowelled, burnished, and other concrete floor applications where a floor densifier or hardener is specified.

TECHNICAL INFORMATION

Drying Time.....	1-2 hours	Wet Appearance.....	Clear - Hazy
Re-Coat Time.....	2-3 hours	Dry Appearance.....	Crystal Clear
Foot Traffic.....	12-24 hours	VOC Content.....	0
Wheel Traffic.....	24-48 hours	Blush Resistance.....	Excellent
Application Temp.....	40°F - 85°F	Solvent Resistance.....	Excellent
		Concrete Adhesion.....	Excellent

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

SPECIFICATIONS/COMPLIANCES

Aqualon SP-450 is VOC and OTC compliant in all areas of the United States and many foreign nations.

APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Optional Second Coat</u>
Freshly placed, uncured, trowelled concrete	200-300 ft ²	200-300 ft ²
Cured, trowelled concrete	300-400 ft ²	300-400 ft ²
Cured, ground concrete	200-300 ft ²	200-300 ft ²

SHELF LIFE

Aqualon SP-450 has a shelf life of one year in its original, sealed, unopened container.

PACKAGING

Aqualon SP-450 is packaged and stocked in 1 gallon jugs, 5 gallon pails and 55 gallon drums

SURFKOAT™

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POLISHING MATERIALS

AQUALON SP-450

INSTRUCTIONS FOR USE

PREPARATION: Protect all people, property, and plants not to be treated with Aqualon SP-450 as product splash and wind drift could occur. Do not apply to any surface that is dirty, frozen, or heavily saturated or flooded with water. Surface must be clean and free of all debris, dry, and absorbent. Mist water in a small area to test the surface for absorbency. Any surface to be treated should uniformly wet out. If the surface to be treated does not wet out uniformly, it is then recommended to prepare the surface mechanically to remove any remaining surface contaminants.

MIXING: No mixing is necessary prior to application.

APPLICATION:

New (Uncured) Concrete: It is not traditionally recommended to apply Aqualon SP-450 to concrete earlier than 28 days. If this application is necessary, ensure the removal of all soft cut saw debris prior to application. Apply after final troweling at a rate of 200-300 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom. Ensure floor saturation for 30-60 minutes, removing any puddle areas with a soft bristle push broom or mop. Apply more Aqualon SP-450 to areas that appear to be more porous and are absorbing the material more. **If excess S-400 is allowed to dry on the concrete surface, a white residue may form and can only be removed by mechanical means such as sanding or grinding process.**

Existing Concrete: Apply at a rate of 200-300 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom. Ensure floor saturation for 30-60 minutes, removing any puddle areas with a soft bristle push broom. Apply more Aqualon SP-450 to areas that appear to be more porous and are absorbing the material more. Rework any excess material with a soft bristle broom. **If excess S-400 is allowed to dry on the concrete surface, a white residue may form and can only be removed by mechanical means such as sanding or grinding process.**

Polished Concrete: After completing the 400 grit stage of polishing, apply a saturating, uniform coat of Aqualon SP-450 at a rate of 200-300 sq. ft. per gallon using an industrial grade sprayer with a 0.5 gal./min. fan tip, lint free mop, or soft bristle push broom, ensuring floor saturation for 30-60 minutes. Do not allow to puddle. **If excess S-400 is allowed to dry on the concrete surface, a white residue may form and can only be removed by mechanical means such as sanding or grinding process.** Follow through with additional polishing steps until desired appearance is achieved. Additional applications of Aqualon SP-450 can be added at any stage before the final polishing phase is done if necessary at a rate of 200-300 sq. ft. per gallon. Remove any excess residue with polishing diamonds or polishing pads. Flushing with water is not necessary. Note: For softer concrete an initial application of Aqualon SP-450 can be applied after the 80 grit stage prior to the standard polishing steps to achieve a harder surface.

PLEASE NOTE: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. If applying by spray method, extended coverage rates may be achieved, but be aware that less material will be applied and performance expectations may be limited.

CLEAN-UP

Use warm soap and water. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

N/A

PRECAUTIONS AND LIMITATIONS

- ▶ **Aqualon SP-450** will freeze. It is recommended to store in an area between 40 F and 85 F recommended.
- ▶ Do not puddle or apply in thick coats. **Aqualon SP-450** should be applied only as explained above.
- ▶ **Aqualon SP-450** is harmful if swallowed. Abide by recommended safety guidelines.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Aqualon SP-450** is not a curing compound. Use on concrete less than 3 days old may result in a reduction of effectiveness.
- ▶ The use of high alkaline or acidic cleaners on the treated surface is not recommended and can be damaging.
- ▶ Protect metal, glass, wood, brick, and painted surfaces. Wash immediately with clean water if contact occurs.
- ▶ Not intended for use as a cure & seal. Does not meet ASTM C 309 or ASTM C 1315.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 615-323-9461.

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