

AQUALON S-400

PRODUCT CODE: 010-AS400

SODIUM SILICATE CONCRETE FLOOR DENSIFIER

PRODUCT DESCRIPTION

Aqualon S-400 is an environmentally friendly, VOC free, sodium silicate concrete floor densifier, hardener, and sealer which works by reacting with the free lime in the concrete. **Aqualon S-400** is designed to penetrate and protect the surface by reducing porosity and dusting to improve abrasion resistance and hardness. The finished concrete surface is breathable and easier to maintain since it does not wear or peel away.

BENEFITS/FEATURES

- ◆ VOC Compliant, non-flammable, and odorless formula for easy indoor use.
- ◆ Effective on new and old concrete surfaces and very easy to maintain.
- ◆ A safer floor surface. Provides excellent non-slip, high traction properties.
- ◆ Yields a UV stable, superior sheen, and resistance to abrasion and scuffing.

RECOMMENDED APPLICATIONS

Aqualon S-400 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 S-400 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	300-400 ft ²	300-400 ft ²
Cured, trowelled concrete	200-300 ft ²	200-300 ft ²
Cured, ground concrete	200-300 ft ²	200-300 ft ²

SHELF LIFE

Aqualon S-400 has a shelf life of one year in it's original, sealed, unopened container.

PACKAGING

Aqualon S-400 is packaged and stocked in 1 gallon jugs, 5 gallon pails and 55 gallon drums

SURFKOAT™

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POLISHING MATERIALS

AQUALON S-400

INSTRUCTIONS FOR USE

PREPARATION: Protect all people, property, and plants not to be treated with Aqualon S-400 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 S-400 to concrete earlier than 7 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 300-400 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 S-400 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 S-400 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 S-400 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 polish-ing steps until desired appearance is achieved. Additional applications of Aqualon S-400 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 S-400 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 S-400** 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 S-400** should be applied only as explained above.
- ▶ **Aqualon S-400** is harmful if swallowed. Abide by recommended safety guidelines.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Aqualon S-400** 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.

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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