

ACQUASEAL™ SATIN ACRYLIC SEALER

TECHNICAL DATA SHEET



DESCRIPTION

AcquaSeal™ Satin is an advanced, eco-conscious topical water-based sealer, distinguished by its single-component formula and a robust 25% solids concentration of proprietary, non-yellowing acrylic polymer resin. As a 100% cross-linking acrylic product, it offers unparalleled durability and aesthetic enhancement, all within an environmentally responsible water-based solution characterized by low VOC emissions (<34 g/L). This formulation not only delivers a subtle, elegant low sheen and satin finish but also provides exceptional protective qualities.

PRODUCT BENEFITS

- **Superior Durability:** Ensures long-lasting protection against abrasion, chemicals, and environmental factors.
- **Enhanced Aesthetics:** Offers color enhancement while imparting a sophisticated satin sheen, elevating the natural beauty of surfaces without altering their texture.
- **Environmental Responsibility:** Low VOC formulation supports healthier indoor and outdoor environments.
- **Adhesion & Flexibility:** Exhibits excellent adhesion to a variety of substrates, maintaining flexibility to withstand physical stresses.
- **Weather and UV Resistance:** Engineered for exceptional resistance to weathering and UV degradation, preserving the integrity and appearance of treated surfaces.
- **Dust Mitigation:** Effectively reduces surface dusting for a cleaner, more maintainable finish.
- **Versatile:** Ideal for a wide range of applications, AcquaSeal™ is tailored for those seeking both performance and sustainability in surface treatments, enhancing and protecting with minimal environmental impact.

PRE-APPLICATION

- **Clean:** The surface must be entirely free from dust, dirt, oil, grease, paints, glues, non-water-based acrylic sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew, and other materials that could prevent proper bonding.
- **Cured:** Ensure the concrete or overlay is fully cured before application. It's recommended that cement-based products cure for at least 28 days for optimal results.
- **Sound:** Only apply to cement-based products that are not flaking or spalling. The substrate must be structurally sound. For surfaces showing signs of delamination, use diamond grinding, shot blasting, or similar mechanical methods for removal.
- **Profiled:** Perform an absorption test to check if the concrete is ready for sealing. Pour water onto the concrete surface and wait for 3-5 minutes. If the water is not absorbed, the surface will need to be cleaned and etched with CitrusEtch™ to open the pores of the concrete. Detailed instructions can be found in the CitrusEtch™ Technical Data Sheet. If the concrete absorbs the water, it is ready for AcquaSeal™ application.
- **Temperature:** For best results, apply AcquaSeal™ in temperatures ranging from 60°F (15°C) to 95°F (35°C).

PREPARATION

- **Personal Safety:** Always wear appropriate personal protective equipment as recommended in the Safety Data Sheet.
- **Area Preparation:** Protect surfaces not intended for staining by covering surrounding areas to prevent accidental application.
- **Avoid using tape on concrete surfaces before or after staining,** as adhesives and plasticizers can interfere with the sealer's effectiveness.

TOOLS FOR APPLICATION

For Large Applications choose the appropriate tool based on your application needs:

- 3/8" nap roller and bucket grid (for even rolling applications)
- 8" – 10" extension (for extended reach)
- Airless sprayer (.015" - .019" tip, 65° fan) and pump-up sprayer (filters removed)
- Commercial pump sprayer with a fan or cone tip (for 30% solids products)

For Small Projects: Use a soft brush or a small foam applicator, alongside a tub or dishpan that's large enough for easy dipping of the brush.

APPLICATION

- Divide the work area into manageable sections, using natural break points like walls and joints to ensure uniform application.
- Maintain wet edges to minimize overlap marks.
- Achieve even coverage by rolling in a continuous, thin, overlapping pattern or spraying in a controlled, circular motion. Note: The sealer will appear milky when applied but will dry clear.
- Prevent puddling and drips: backroll with a nap roller and start/stop the sprayer off the work surface.
- Allow 6 to 12 hours of drying time between coats, adjusting for environmental conditions.
- Test surface dryness before a second coat by pressing with a thumbnail; proceed if there's no dent.
- Apply thin layers to avoid bubbling and ensure optimal finish and performance.
- Tip for Windy Conditions: Prefer rolling to spraying under windy conditions to minimize sealer waste and prevent bubble formation. Wind can significantly increase sealer loss and lead to uneven application.
- To enhance traction, evenly apply OxiGrip™ with a broadcast spreader during the second coat application, then backroll to integrate the additive.

THINNING

Thinning or diluting this product is strongly discouraged.

COVERAGE

Estimated coverage is approximately 200 square feet (18.58 m²) per gallon. Actual coverage rates may differ based on factors such as surface porosity, texture, the age and condition of the concrete, chosen application method, and prevailing environmental conditions.

CLEAN UP

- Immediate Clean Up: For effective clean-up of spills and cleaning of tools before AcquaSeal™ has dried, use ProClean Degreaser™ in its standard dilution. Consult the Technical Data Sheet for usage and safety details.
- Removing Cured Sealer: To remove AcquaSeal™ once it has cured, Soy Gel Stripper or a comparable high-strength commercial-grade stripper is recommended. Consult the Technical Data Sheet of the selected stripper for specific application guidelines and safety measures.

SURFACE PROTECTION AND MAINTENANCE

- Periodically inspect the sealed surface for areas where the sealer may be thinning or showing signs of wear due to traffic. Reapply the sealer as needed,
- If traces of efflorescence are present, they should be removed using a gentle cleaner before resealing or applying any maintenance products.
- For interior surfaces, the application of ProWax Polish™ is recommended as a sacrificial layer on top of the existing seal coat to enhance protection and appearance. Ensure you obtain and review the appropriate Technical Data Sheet and Safety Data Sheet prior to using this product.

SUITABILITY SAMPLE

Prior to application, prepare a sufficient number of test areas on the actual substrate to determine the aesthetic suitability of the product for its intended use.

LIMITATIONS & PRECAUTIONS

- **Surface Compatibility:** AcquaSeal™ may experience adhesion challenges when applied to hard-troweled (machine-smoothed) surfaces or surfaces whose pores are smaller than the sealer's particles. This can result in the sealer drying without proper adhesion.
- **Avoid Liquid Contact During Curing:** Prevent any liquids, including sweat, from coming into contact with the uncured coating, as this can affect both the curing process and the quality of the finish.
- **Wear and Tear:** As with all water-based acrylic sealers, AcquaSeal™ is subject to surface wear. Its longevity and durability are contingent upon proper application to a suitably prepared surface, and will also depend on the volume and type of traffic.

SLIP RESISTANCE

Two prominent US agencies, the Occupational Safety and Health Administration (OSHA) and the Department of Justice through the Americans with Disabilities Act (ADA), have set guidelines for minimum coefficients of friction to ensure safety on walkways and ramps. The ADA standards are notably more stringent, requiring a minimum coefficient of friction of 0.6 for accessible walkways and 0.8 for ramps. It is the applicator's responsibility to ensure these criteria are met, especially in areas prone to becoming wet, oily, or greasy. Refer to OxiGrip™ Slip Resistant Additive) TDS and its accompanying coefficient of friction table.

DISPOSAL

For the disposal of any unused product, please refer to your local environmental or hazardous waste management authority to ensure compliance with local regulations.

SHELF LIFE AND STORAGE

This product should be used within one year of purchase for optimal effectiveness. For storage, keep the product indoors, in a cool area away from direct sunlight and heat sources. Do not allow to freeze.

HEALTH & SAFETY GUIDELINES

CAUTION: Avoid contact with eyes and skin. Do not take internally. In case of eye contact, flush thoroughly with water. In case of skin contact, flush thoroughly with water. If swallowed, do not induce vomiting. Call physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

WARRANTY

AcquaSeal™, a proprietary product, is guaranteed to maintain uniform quality within the bounds of manufacturing tolerances. However, as we have no control over its application, no explicit or implied warranty is provided concerning the effects of such use. In the event of a proven defect, our liability is strictly limited to refunding the purchase price of the defective material. The user is responsible for all other risks and liabilities that may arise from the use of this product. For any inquiries, please reach out to Direct Colors customer service.

AVAILABLE SIZES & PACKAGING

4-Ounce (0.118 L) Bottle	5-Gallon (18.925 L) Carboy
1-Quart (0.946 L) Bottle	55-Gallon (208 L) Drum
1-Gallon (3.785 L) Jug	

APPLICABLE STANDARDS

Meets EQ Credit 4.2 for Low-Emitting Materials: Paints & Coatings.

COMPLEMENTARY PRODUCTS

- ProClean Degreaser™ Concentrate Cleaning agent.
- CitrusEtch™ - Concrete etching agent.
- ProClean Neutralizer™ Concentrate.
- OxiGrip™ Slip resistant Sealer additive
- ProWax Polish™ Premium Floor Wax & Polish
- AcquaTint™ - Acrylic Water-Based Tinted Sealer

TECHNICAL SERVICE & SUPPORT

Direct Colors offers comprehensive technical assistance and consulting services. Our expertise includes product selection guidance, specification details, troubleshooting support, and advice on the effective repair and protection of concrete surfaces. We are committed to providing tailored solutions to meet your specific project needs.

TECHNICAL DATA

Physical State	Liquid
Color	White opaque
Odor	Slight
Solubility in Water	100%
VOC	< 34%
Specific Gravity	~ 1.018
Flash Point	>200°F (93.3°C)

SAFETY DATA SHEET

Scan the QR code below for the complete Safety Data Sheet.



MANUFACTURERS SKU & UPC

4 Ounce Satin	DC-ACS-WAT-SAT-4OZ	810141960145
1 Quart Satin	DC-ACS-WAT-SAT-1QT	810141960138
1 Gallon Satin	DC-ACS-WAT-SAT-1GAL	810141960121
5 Gallon Satin	DC-ACS-WAT-SAT-5GAL	810141960152