

# C<sup>2</sup> STAIN SAFE

C<sup>2</sup> Stain Safe combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “neat” silane system offers invisible protection and low volatility. The small molecular structure of C<sup>2</sup> Stain Safe allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes C<sup>2</sup> Stain Safe ideal for protecting concrete. Additionally, C<sup>2</sup> Stain Safe forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts.

## ADVANTAGES

- Normally will not create color change, even on dense surfaces.
- Provides long-lasting protection.
- Compatible with C<sup>2</sup> lithium silicate hardeners/densifiers.
- Treated surfaces “breathe” – does not trap moisture.
- Coverage rate higher than typical water repellents or other stain-resistant impregnators.
- Resists oil and food stains. Does not form a surface film or gloss.
- Excellent surface beading when compared with conventional “neat” silanes.
- Appropriate for application to concrete which is cured, cured and honed, cured and polished or cured and highly polished.
- Safe for use on surfaces subjected to auto traffic.

## Limitations

- Not recommended for asphalt or other non-masonry materials.
- Not recommended for below-grade applications or for use under hydrostatic pressure.
- Do not buff or burnish after application.
- Always pretest to ensure desired results before application to floors previously treated with C<sup>2</sup> Seal. Do not buff or burnish after application.

## TYPICAL TECHNICAL DATA

FORM	Clear, colorless liquid. Slight solvent odor
SPECIFIC GRAVITY	0.913
pH	not applicable
WT/GAL	7.6 lbs
ACTIVE CONTENT	93%
TOTAL SOLIDS	58%
VOC CONTENT	400 g/L maximum
FLASH POINT	27°C (80°F) ASTM D 3278
FREEZE POINT	no data
SHELF LIFE	1 year in tightly sealed, unopened container

## REGULATORY COMPLIANCE

### VOC Compliance

C<sup>2</sup> Stain Safe is compliant with the US Environmental Protection Agency’s AIM VOC regulations.

Contact us at [sales@cretecolors.com](mailto:sales@cretecolors.com) for compliance questions with individual country regulations.

## SAFETY INFORMATION

This product contains a material that can cause serious lung damage or impairment if inhaled as an aerosol or fine mist. **DO NOT ATOMIZE DURING APPLICATION.** Do not buff or burnish after application.

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

**24-Hour Emergency Information:**

**INFOTRAC at +1-352-323-3500**



## PREPARATION

Protect passersby, building occupants, people, vehicles, property, glass, plants and all non masonry from product, residue, splash, fumes, mist and wind drift. Divert and/or protect auto and pedestrian traffic.

Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment are shut down during application and until vapors have dissipated.

If possible, install all caulking, patching and joint sealants before applying. If impractical, special joint preparation may be required to ensure caulk adhesion.

For maximum penetration, clean surfaces thoroughly with appropriate Crete Colors cleaner. Cure new concrete thoroughly before applying. Surfaces may be damp but should be absorbent for good penetration.

**NOTE:** Some floor and wall systems incorporate asphaltic or other crack suppression membranes. This deeply penetrative protective treatment may penetrate through exposed surfaces and react with the membrane to mobilize objectionable staining. Always test for desired results.

**Specifier's Note** – Curing New Concrete: Blanket or water curing is recommended whenever possible. If a chemical curing agent is required, dissipating curing agents are recommended. Avoid over application of the curing agent. Remove all surface films and contaminants before application.

## Surface & Air Temperatures

Temperatures for application should be at least 4°C - 28°C (40°F - 100°F). Do not apply over 32°C (90°F). Avoid application on hot, windy days.

## Equipment

Preferred method of application is with low-pressure (<50 psi), pump type spray equipment. **DO NOT ATOMIZE DURING APPLICATION.** This product contains a material that can cause serious lung damage or impairment if inhaled as an aerosol or fine mist. Adjust tip to prevent atomization during application.

Battery powered pump sprayers should be rated as explosion proof. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration. Solvent-resistant brushes and rollers, or lamb's wool applicators are okay for small-scale applications.

## Storage & Handling

Store in a cool, dry place away from potential ignition sources. Keep tightly closed when not dispensing. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 7–38°C (45–100°F). Do not double stack pallets. Dispose of in accordance with local regulations.

## Packaging

3.5L, 20L or 200L Containers

## APPLICATION

Read "Preparation" and the Safety Data Sheet before use.

**ALWAYS TEST** a small area of each surface to confirm suitability, coverage rate and desired results before beginning overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let surface dry thoroughly before inspection.

## Dilution & Mixing

Apply as packaged. Do not dilute or alter material. Stir or mix well before use. Do not atomize during application.

## Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Calculate the target coverage rate by testing a section of the surface using the application instructions.

## Estimated Coverage Rates

- 5 – 15 m<sup>2</sup>/L
- 200 – 600 ft<sup>2</sup>/ US gal

## Application Instructions

1. Apply in a single application. Use enough material to keep the surface wet for about a minute before penetrating.
2. Broom out all puddles thoroughly until they completely penetrate the surface.
3. Wipe down excess with a clean, absorbent towel.

**On extremely porous substrates**, two applications will provide superior protection. Apply the second coat within a few minutes after the first coat has penetrated and appears dry.



## Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. C<sup>2</sup> Stain Safe gains its oil resistance properties in 24 hours and water repellency properties in 72 hours.

## Cleanup

Clean tools and equipment immediately with mineral spirits or equivalent cleaning solvent. Remove rundown and spills as soon as possible. Container may retain residues. Keep from ignition sources. Do not reuse.

## Maintenance

*This product is not designed for use with buffing or burnishing equipment.*

Remove surface dust and debris daily using a micro fiber pad, dry dust mop or by auto-scrubbing.

Remove spills or stains from surfaces treated with C<sup>2</sup> Stain Safe as soon as possible to minimize any potential for damage. Though C<sup>2</sup> Stain Safe will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain.

Do not use acidic cleaners. Use C<sup>2</sup> Clean or C<sup>2</sup> Maintenance for maintenance cleaning. C<sup>2</sup> Maintenance contains lithium-silicate for improving surface density and preserving the surface sheen of Crete Colors floors.

## WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

Crete Colors International warrants this product to be free from defects. *Where permitted by law, Crete Colors makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.* The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. Crete Colors International's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves Crete Colors from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability.

This warranty may not be modified or extended by representatives of Crete Colors, its distributors or dealers.

## CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Email us at [sales@cretecolors.com](mailto:sales@cretecolors.com) for technical support.

Factory-trained representatives are established in countries around the world. Contact us or visit our web site at [www.cretecolors.com](http://www.cretecolors.com), for the name of the Crete Colors representative in your area.

## BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent. Remove all loose construction debris and foreign materials from surfaces to be treated using a dry broom. Remove all curing compounds, coatings, paint, wax, embedded soiling, rust, grease and oil using the appropriate Crete Colors surface preparation cleaner.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application. Floor may be treated with C<sup>2</sup> Super Hard or C<sup>2</sup> Hard prior to application of C<sup>2</sup> Stain Safe.

Preferred method of application is with low-pressure (50 psi), pump type spray equipment. **DO NOT ATOMIZE DURING APPLICATION.** Adjust tip to prevent atomization. Do not buff or burnish after application. This product is not designed for use with buffing or burnishing equipment.

Use C<sup>2</sup> Clean as part of a comprehensive floor maintenance program that includes deep cleaning with C<sup>2</sup> Maintenance. Floors treated and burnished with C<sup>2</sup> Seal may be treated with a light coat of C<sup>2</sup> Stain Safe. Do not buff or burnish after application. Always perform a test area first to ensure desired results.