



C² REPEL

C² Repel is a modified, “neat” silane system that offers invisible protection and low volatility. C² Repel protects horizontal and vertical concrete surfaces against water and waterborne contaminants. The small molecular structure ensures maximum penetration and colorless protection of dense, color-sensitive surfaces. Ideal for glass fiber reinforced concrete, integrally colored precast concrete and many types of natural stone. The absence of a solvent carrier enables applicators to achieve up to five times the coverage rate normally achieved with solvent-reduced protective treatments. Depth of penetration is controlled by the application rate (loading rate).

ADVANTAGES

- Excellent surface beading/stain resistance when compared with conventional “neat” silane systems.
- Long-lasting protection.
- Does not form a film or gloss.
- Compatible with lithium silicate hardeners/densifiers.
- Treated surfaces “breathe” – does not trap moisture.
- Forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water carried salts.
- Leaves little or no residue on clean window glass. Always test.
- Suitable for application on cured, honed & polished concrete.
- Safe for use on surfaces subjected to auto traffic.

Limitations

- Not suitable for asphalt or other non masonry materials.
- Do not buff or burnish after application.
- Not recommended for below-grade applications or for use under hydrostatic pressure.
- Will not prevent water penetration through structural cracks, defects or open joints.
- Do not apply over C² Seal.

TYPICAL TECHNICAL DATA

FORM	Clear, slightly yellow liquid. Slight alcohol odor
SPECIFIC GRAVITY	0.920
pH	not applicable
WT/GAL	7.65 lbs
ACTIVE CONTENT	98%
TOTAL SOLIDS	62%
VOC CONTENT	350 g/L maximum
FLASH POINT	34°C (94°F) ASTM D 3278
FREEZE POINT	no data
SHELF LIFE	2 years in tightly sealed, unopened container

REGULATORY COMPLIANCE

VOC Compliance

C² Repel is compliant with the US Environmental Protection Agency’s AIM VOC regulations.

Contact us at 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

PRODUCT DATA SHEET: C² Repel



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 application. If impractical, test for adhesion and grind joints as required to properly prepare for caulking, etc.

Surfaces should be thoroughly clean and free of dust, surface dirt, oil, grease and other contaminants that might prevent penetration. Carefully inspect for dust, dirt, moisture or other contaminants that can cause the product to react and stain the material.

New concrete should be thoroughly cured before application. Surfaces to be treated may be damp but should be absorbent for good penetration.

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.

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

Surface & Air Temperatures

For maximum effectiveness, surface and air temperatures for application should be at least 4°C - 35°C (40°F - 95°F). Application on windy days may cause rapid evaporation and should be avoided.

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

- 8- 14 m²/L
- 200-600 ft²/ US gal



Application Instructions

Horizontal Surfaces

Apply once using enough material to keep the surface wet approximately 30 to 60 seconds before penetrating. Broom out puddles until they completely penetrate the surface. On extremely porous substrates, two applications will provide superior protection. Apply the second coat a few minutes after the first coat has penetrated and appears dry.

Dense Surfaces

Apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Test for application rate.

Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. C² Repel gains its water-repellency properties in 72 hours.

Cleanup

Clean tools and equipment immediately with mineral spirits, denatured alcohol 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 microfiber pad or dry dust mop.

Remove spills or stains from surfaces treated with C² Repel as soon as possible to minimize any potential for damage. Though C² Repel 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 C² Clean or C² Maintenance for maintenance cleaning. C² Maintenance contains lithium-silicate for improving surface density and preserving the surface sheen of Crete Colors floors.

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.

Preferred method of application is low-pressure spray equipment. DO NOT ATOMIZE DURING APPLICATION. Use a fan-type spray tip and adjust pressure to prevent atomization of the material.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application. Floor may be treated C² Super Hard or C² Hard prior to application of C² Repel.

Do not buff or burnish after application. This product is not designed for use with buffing or burnishing equipment. Though C² Repel will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain. Remove spills or stains from surfaces treated with C² Repel as soon as possible to minimize any potential for damage. Use C² Clean as part of a comprehensive floor maintenance program that includes deep cleaning with C² Maintenance.

Do not apply over C² Seal.



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 for technical support.

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