



C² Repel™

High Performance Penetrating Water Repellent

DESCRIPTION

C² Repel™ is a high performing silane solution that offers superior water-resistance on horizontal and vertical surfaces. The small molecular structure of C² Repel™ allows for maximum penetration at coverage rates higher than that of conventional silanes. The depth of penetration is controlled by the application rate.

This makes C² Repel™ ideal for protecting concrete, polished concrete, granite, many types of natural stones and other dense, color- sensitive surfaces.

BENEFITS

Dependable

Provides long-lasting protection

Economical

Coverage rate higher than typical water repellents or other stain resistant impregnators

Flexible

Forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts

Penetrating

Does not create surface film or gloss. Leaves little or no residue on clean window glass. Always test.

Color Stable

Will not develop color change, even on dense surfaces

Breathable

Does not trap moisture inside the surface

Widely used

Complies with national and state AIM VOC regulations

Outperforming

Excellent surface beading when compared with conventional “neat” silanes.

ADVANTAGES

Compatible with lithium silicate hardeners and densifiers
Appropriate for application to concrete which is cured, cured and honed, cured and polished or cured and highly polished.

COMPLIANCE

Complies with the following national, state and district AIM VOC regulations:

X	California Air Resources Board SCM Districts
X	Maricopa County, Arizona
X	Northeast Ozone Transport Commission
X	US Environmental Protection Agency
X	South Coast Air Quality Management District

Limitations

All information provided is to the best of our knowledge accurate and is to be used strictly as a guide. Handling conditions, installation and use are not in our control therefore we cannot guarantee the results.

Not recommended for asphalt or other non-masonry materials.
Not recommended for below-grade applications or for use under hydrostatic pressure.
Do not apply over C² Seal™.

For additional testing information contact Crete Colors International at: support@cretecolors.com

Technical Data

FORM	Clear to slight yellow liquid
SPECIFIC GRAVITY	0.920
ACTIVE CONTENT	98%
TOTAL SOLIDS	62%
pH	NA
WT/GAL	7.65 lbs
FLASH POINT	34°C (94°F) ASTM D 3278
FREEZE POINT	ND
VOC CONTENT	Maximum 400g/L
SHELF LIFE	1 year in unopened, factory sealed container

SURFACE PREPARATION

Please read: SAFETY INFORMATION on the label and SURFACE PREPARATION before use and application.



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SOLUTIONS

Remove all curing compounds and other surface contaminants using the appropriate C² surface preparation cleaner, as listed below:

C² Wash™ – Concrete laitance and construction soiling from freshly placed and cured concrete

C² Maintenance™ – General soiling and fine dust from ground/polished concrete

C² Remove™ – Curing compounds, mastics, tire marks, wax remover

C² Stain Clean™ – Oil and grease stain remover

C² Clean™ – For cleaning and degreasing light-to-heavy soiled concrete.

Equipment

Preferred method of application is with low-pressure, pump type spray equipment. 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. Brushes and rollers may not achieve a uniform, extended coverage rate on large-scale applications, which could reduce cost efficiency.

Air and Surface Temperature

For maximum effectiveness, air and surface temperature should be 4°C to 38°C (40° F to 100° F). Do not apply when over 35°C (95° F). Avoid application on hot, windy days, which might cause rapid evaporation.

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products manufactured under contract for Crete Colors International, LLC and should not be viewed as a complete source of information about the product(s). The Architect should also refer to the MSDS document for additional recommendations and for safety information.

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Test Area

- Refer to “Application Instructions” and always test each type of surface and each type of stain for suitability, dwell time and results.
- Test a minimum 1.5m x 1.5m (5ft. x 5ft.) area on each type of masonry. Let the test panel dry 3 to 7 days before inspection. Keep test panels available for comparison throughout the cleaning project.
- Follow Crete Colors International, LLC application instructions.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufactured under contract for:

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85070, USA.
Tel: +1-602-903-2133
Fax: +1-480-706-8144
E-mail: support@cretecolors.com

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Specifier 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 over the curing agent.

For best performance, remove all other surface films and contaminants before application.

Typical Coverage Rates

Refer to “Specification” Typical Coverage Rates

STORAGE AND HANDLING

Maintain temperature of 4-38°C (40-100°F), protect from extreme temperatures and keep from freezing. Do not double-stack pallets. Published shelf life assumes upright storage of factory-sealed container in a cool dry place. Do not alter or mix with other chemicals. Thaw and Mix well before using and always seal container after dispensing. Dispose of unused product and container in accordance with local regulations. Do not reuse container or remove labels.



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Keep this and other chemicals out of the reach of children.

PACKAGING

3.5L, 20L or 200L Containers

APPLICATION INSTRUCTIONS

Please read SAFETY INFORMATION on the label and SURFACE PREPARATION before use and application.

ALWAYS TEST

each surface for suitability and desired results before application.

For best results follow "Application Instructions". Let surface dry thoroughly before inspection and final approval.

Dilution

Do not dilute or alter C² Repel™. Use in the concentrated form. Do not use for purposes other than specified. Stir or shake well before use.

COVERAGE RATES

Listed typical coverage rates are standard; they will vary based on the porosity and surface texture.

8 - 14 m²/liter

200 - 600 ft²/gallon

PLEASE NOTE: Coverage rates are offered for estimating purposes only. Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times.

C² recommends people, passersby, building occupants, vehicles, property, glass, plants and all non-masonry should be protected from product, residue, splash, fumes 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 C² Clean™, our all-purpose cleaner. Cure new concrete thoroughly before applying. Surfaces may be damp but should be absorbent for good penetration.

PLEASE NOTE:

Some floor and wall systems incorporate asphaltic or other crack suppression membranes. This deeply penetrative protective treatment may penetrate through exposed stone, tile, grout or paver surfaces and react with the membrane to mobilize objectionable staining.

Always test for desired results.

SUBSTRATES:

Concrete, polished concrete, cementitious tiles, terrazzo, concrete pavers, granite and many types of natural stones.

Horizontal Applications

Apply in a single application. Use enough material to keep the surface wet for about a minute before penetrating.

Thoroughly broom out all puddles until they completely penetrate the surface.

Wipe down excess with a clean, absorbent towel.

Vertical Applications

Apply in a single, saturating application. Use enough to thoroughly wet the surface and create a slight rundown below the spray pattern. Do not over apply. Brush heavy runs and drips thoroughly into the surface. Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. C² Repel™ gains its water repellency properties in 7 days.

Dense Surface Application Instructions

On 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.

Extremely Porous Substrates Application Instructions

Two applications will provide superior protection. Apply the second coat within a few minutes after the initial application has penetrated and appears dry.



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Cleanup

Clean tools and equipment immediately with mineral spirits or equivalent cleaning solvent.

Remove overspray and spills as soon as possible. Container may retain residues. Keep from ignition sources. Do not reuse containers.

MAINTENANCE

Remove spills or stains from surfaces treated with C² Repel™ as soon as possible.

Remove surface dust and debris daily using a microfiber pad or dry dust mop. Maintain the floor with C² Maintenance™ or C² Clean™.

These product were developed to further enhance the long-term performance of your finished concrete floor.

Do not use acidic cleaners. 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. Clean up all spills quickly to minimize any potential for damage.

SAFETY INFORMATION

Your safety is our priority. Crete Colors International, LLC is a member of INFOTRAC'S MSDS Partnership Program. In case of any chemical emergency related to our C² products; spill, leak, fire or accident please contact INFOTRAC free of charge for immediate first aid information.

Online access 24/7 at:

www.infotrac.net

Phone access 24/7 at:

+1- 352-323-3500

C² Repel™ water repellent evolves an alcohol upon reaction with the treated surface and may cause symptoms typical with organic solvent exposures. 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.** This is a flammable material.

Use appropriate ventilation, safety equipment, and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

FIRST AID

Ingestion:

Seek medical attention immediately. Treat as methanol ingestion.

Eye Contact:

Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water. If irritation persists, seek medical attention.

Skin Contact:

Remove contaminated clothing and wash contacted area with soap and water. If irritation persists, seek medical attention.

Inhalation:

Remove affected person to fresh air. Give artificial respiration if not breathing and seek immediate medical attention.

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, and 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 International 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.

Crete Colors liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product have 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 International, its distributors or dealers.

CUSTOMER SERVICE

For technical assistance and product information visit our web site at www.cretecolors.com or email at support@cretecolors.com