

C² PROTECTOR



C² Protector is a penetrating, reactive treatment that provides water, oil and stain repellency for every kind of finished concrete floor. Treated surfaces retain their natural texture and breathability. C² Protector improves stain resistance and simplifies maintenance cleaning of interior and exterior, horizontal and vertical concrete surfaces. Solvent-based and low-odor, this VOC compliant protective treatment is easily applied with pump-up sprayers.

ADVANTAGES

- Resists oil and food stains, and repels water and water-related stains.
- Works on floors previously treated with C² Super Hard, C² Hard or C² Hard Blend.
- May be applied to surfaces previously treated with C² Seal or C² Ultra Seal.
- Appropriate for application to any cured concrete, from steel troweled to highly polished.
- Low-odor suitable for interior application to occupied buildings.
- Fast drying – reduces down time.
- Treated surfaces “breathe” – does not trap moisture.
- Can be burnished.
- Coverage rate higher than typical water repellents or other stain-resistant impregnators.
- Re-coatable; penetrates and bonds to concrete previously treated with C² Protector – no stripping required.

Limitations

- May slightly darken concrete surfaces.
- Not for use on surfaces exposed to standing or pooling water.
- Will not compensate for structural defects or bridge cracks, gaps and voids.
- Not suitable for surfaces subjected to below grade water exposure.
- Will not provide UV protection to concrete flooring colored with C² Tint or C² Color Hard. C² Ultra Seal or C² Seal would be more appropriate.

TYPICAL TECHNICAL DATA

FORM	Clear, colorless liquid
SPECIFIC GRAVITY	0.96
pH	not applicable
WT/GAL	7.99 lbs
ACTIVE CONTENT	13%
TOTAL SOLIDS	13% ASTM D 2369
VOC CONTENT	<100 g/L
FLASH POINT	77°C (170°F) ASTM D 3278
FREEZE POINT	-30° C (-22° F)
SHELF LIFE	1 year in tightly sealed, unopened container

REGULATORY COMPLIANCE

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

VOC Compliance

C² Protector 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.

PRODUCT DATA SHEET: C² Protector



PREPARATION

Protect people, vehicles, property, plants and all surfaces not designated for treatment from the product, splash and wind drift. Use polyethylene or other proven protective material.

Do not apply to surfaces which are frozen, dirty or have standing water.

C² Protector may be applied to existing, cured concrete of any age. New concrete should be cured for at least 28 days prior to application. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris using the appropriate C² surface prep cleaner. Follow the appropriate cleaner with thorough water rinsing.

If a d-limonene based cleaner/stripper is used, clean treated surfaces with C² Degrease and rinse thoroughly.

Application may begin as soon as prepared surfaces are dry.

Surface & Air Temperatures

Should be 4-38°C (40-100°F) during application. Avoid application on hot, windy days.

Equipment

Preferred method of application is with a low-pressure (<50 psi), pump-up sprayer and a microfiber or synthetic lint-free mop. Fit sprayer with spray tip. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration. Do not atomize during application.

Storage & Handling

Store in a cool, dry place. Keep tightly closed when not dispensing. Do not alter or mix with other chemicals. Always seal container after dispensing. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 4-38° C (40-100° F). Do not double stack pallets. Dispose of unused product and container in accordance with local regulations.

Packaging

20L 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

Do not dilute or alter. Apply as packaged. Stir or mix well before use.

Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times.

Estimated Coverage Rates

Steel Troweled Concrete:

- 37 – 75 m²/L
- 1500–3000 ft²/ US gal

Mechanically Honed & Polished Concrete:

- 60 – 100 m²/L
- 2500–4000 ft²/ US gal

C² Seal or C² Ultra Seal Treated Concrete Floors:

- 100 – 120 m²/L
- 4000–5000 ft²/ US gal

Applications to highly polished floors yield the highest coverage rates. Two thin applications achieve better results than one heavy coat.

Application Instructions

Horizontal Surfaces:

C² Protector may be applied to steel troweled, honed, polished or highly polished concrete surfaces. For best results, treat floors with C² Super Hard, C² Hard or C² Hard Blend before application.

1. Lightly wet a clean microfiber pad with C² Protector, leaving the pad damp.
2. Using a clean, pump-up sprayer, and working from one control joint to another, apply a light, fine spray to a small section of the floor.

PRODUCT DATA SHEET: C² Protector



3. Using the damp microfiber pad and firm downward pressure, immediately spread C² Protector to produce a thin, even application. Spread the product as far as possible while maintaining a wet edge.
4. Allow to dry tack free, typically 60–90 minutes. Best results are achieved when C² Protector is allowed to dry and cure for at least 4 hours prior to burnishing.
5. Once dry, C² Protector may be burnished using a high-speed burnisher fitted with a C² Heat Burnishing Pad or #1500–#3000 grit diamond polishing pad suitable for use on high-gloss finishes. In addition to smoothing and polishing the treated surface, high-speed burnishing can help to remove any surface haze from possible over application.
6. Repeat steps 1-5 above as necessary to provide additional stain protection. Apply up to two coats for maximum protection. Subsequent application or applications over surfaces treated with C² Seal or C² Ultra Seal will require less material and may take longer to dry.

Vertical Surfaces:

1. Apply uniformly with low-pressure, pump-up sprayer using enough product to saturate the surface.
2. Brush out heavy runs or drips thoroughly for uniform coverage.
3. An additional coat can be applied after material has dried for at least 60–90 minutes. The second coat will require less material.

Drying Time

Under typical conditions, treated surfaces are ready for foot traffic when dry to the touch. C² Protector gains its stain resistance and water repellency after 24 hours. Stain resistance properties continue to improve for 7 days after application.

Cleanup

Before product dries, clean tools and equipment with mineral spirits or equivalent cleaning solvent. Immediately wipe off over-spray from glass, aluminum, or other surfaces.

Maintenance

Sweep treated surfaces daily with a microfiber pad or dry dust mop.

Remove spills or stains from surfaces treated with C² Protector as soon as possible to minimize any potential for damage. Though C² Protector will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain.

Use C² Clean or C² Maintenance for maintenance cleaning. C² Maintenance contains lithium-silicate for improving surface density and preserving the surface sheen of C² floors.

Do not use other cleaners, including off-the-shelf and common household cleaners, which may contain acidic or alkaline ingredients that can dull the finish of C² floors.

To restore maximum water and stain protection to high traffic areas on vertical floors, repeat Application Instructions steps 1–5 in affected areas.

BEST PRACTICES

C² Protector may be applied to steel troweled, honed, polished or highly polished concrete surfaces. C² Protector can also be applied to surfaces previously treated with C² Seal or C² Ultra Seal. For best results, treat floors with C² Hard, C² Super Hard or C² Hard Blend before application.

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Over application can result in excessive darkening, extended drying times and significant surface haze.

ALWAYS TEST a representative area of each surface to confirm suitability, coverage rates and desired results before beginning overall application. Preferred method of application is low pressure pump-up spray equipment. Do not atomize during application. Use a fan-type spray tip and adjust pressure to prevent atomization.

Best results are obtained when C² Protector is allowed to dry and cure for at least 4 hours prior to burnishing.

Use C² Clean as part of a comprehensive floor maintenance program that includes deep cleaning with C² Maintenance.



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.

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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.