

C² SEAL

C² Seal is a copolymer formulation that improves the surface sheen and stain resistance of conventional concrete, hardened concrete or cement terrazzo floors. Ideal for application to standard gray or colored concrete, C² Seal protects and enhances the color intensity of integrally colored and color stained concrete. C² Seal provides a long lasting, high gloss finish that maximizes light reflectance and eliminates the need for floor waxes, liquid polishes and conventional resin based coatings. C² Seal will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

ADVANTAGES

- Low odor. Easy to apply. Fast drying.
- Produces a long lasting, high gloss finished concrete floor with maximum light reflectance.
- Eliminates the need for floor waxes, liquid polishes and conventional resin based coatings.
- Further improves the surface sheen and stain resistance of floors treated with C² Super Hard, C² Hard or C² Hard Blend.
- Tested and conforms to California Collaborative for High Performance School Indoor Air Quality standards. Use can contribute to LEED® for Schools points (EQ Credit 4).
- Gloss and hardness do not reduce slip resistance.
- Breathable and UV stable. Will not yellow, discolor, peel or flake.
- Non-flammable. Non-toxic. Low odor.

Limitations

- For indoor use only.
- Not for use on surfaces exposed to standing or pooling water.

TYPICAL TECHNICAL DATA

FORM	Opaque, white liquid
SPECIFIC GRAVITY	1.11
pH	11.0
WT/GAL	9.2 lbs
ACTIVE CONTENT	22%
TOTAL SOLIDS	22%
VOC CONTENT	<100 g/L
FLASH POINT	not applicable
FREEZE POINT	0° C (32° F)
SHELF LIFE	1 year in tightly sealed, unopened container

REGULATORY COMPLIANCE

VOC Compliance

C² Seal 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

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 people, vehicles, property, plants and all surfaces not designated to receive C² Seal 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.

SPECIFIER NOTE: A waterproof barrier should be included in the construction of the floor to prevent upward migration of moisture from beneath the concrete flatwork.

New Concrete: New concrete needs to be cured 28 days before application.

Existing Concrete: C² Seal may be applied to existing, cured concrete of any age. 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 Crete Colors 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.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

For best results, let the surface dry 24 hours before applying C² Seal™. Application of C² Seal™ may begin as soon as prepared surface is completely dry.

Surface & Air Temperatures

Temperatures for application should be at least 4°C - 38°C (40°F - 100°F).

Equipment

Apply with low pressure sprayer and a microfiber or synthetic, lint-free mop. Fit sprayer with a 0.5 gpm (gallon per minute) "fan" spray tip. Do not atomize.

Storage & Handling

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

Packaging

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.

Pre-testing will confirm suitability of surface preparation and application procedures proposed for general application, and will also determine the average coverage rates to be maintained over the entire project.

Dilution & Mixing

Do not dilute or alter when applying to cured concrete or cured/honed concrete.

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 representative section of the prepared surface using the published application instructions.

Apply C² Seal at the highest coverage rate possible. Applications to highly polished floors yield the highest coverage rates. Two thin applications achieve better results than one heavy coat.

Estimated Coverage Rates

The following coverage rates are offered for estimating only. See below for instructions on calculating project-specific target coverage rates.

FIRST COAT

- 25 – 40 m²/L
- 1000–1500 ft²/ US gal

SECOND COAT

- 40 – 60 m²/L
- 2000–2500 ft²/ US gal

PRODUCT DATA SHEET: C² Seal



Calculating Project-Specific Target Coverage Rate:

1. Prepare the test section in accordance with "Preparation" information above. Surfaces must be clean, dry and absorbent.
2. Add 3.5L of C² Seal to a clean, pump-up sprayer. Apply according to Application Instructions below. Repeat as necessary to achieve the desired level of finish.
3. Measure the test area to establish the target coverage rate per gallon. Protect the treated area from moisture for 72 hours following application.

Application Instructions

C² Seal 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 of C² Seal.

1. Lightly wet a clean microfiber pad with C² Seal and wring out excess, leaving the pad damp.
2. Using a clean, pump-up sprayer, and working from one control joint to another, apply a light, fine spray of C² Seal to a small section of the floor.
3. Using the damp microfiber pad and firm downward pressure, immediately spread the C² Seal to produce a thin, even coating. Spread the product as far as possible while maintaining a wet edge. Properly applied, C² Seal dries quickly. Stop spreading once drying begins. Avoid overlapping.

4. Allow to dry tack free, typically 20–60 minutes.
5. Once dry, burnish C² Seal using a high speed burnisher fitted with a C² Heat Burnishing Pad or equivalent polishing pad suitable for use on high-gloss finishes. In addition to smoothing and polishing the treated surface, high-speed burnishing heats the C² Seal to help the treatment fuse and bond with the concrete for increased durability and longevity. Surface temperatures immediately behind the burnisher must achieve 33°C (91°F).
6. Repeat steps 1-5 above as necessary for the desired finish. Burnish between coats. Apply up to three coats for maximum gloss.

Drying Time

Under typical conditions, the surface is ready for traffic within 1-hour of final burnishing.

NOTE: Protect from water exposure for 72 hours.

Cleanup

Before product dries, clean tools and equipment with fresh water. Immediately wash off over spray from glass, aluminum, polished or other surfaces with fresh water.

Final Results

The floor is ready to use when dry. Smooth and hardened concrete surfaces should exhibit reduced water absorption and the desired sheen upon drying. Maximum water resistance will develop over 7 days.

BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent. Confirm surface absorbency with a light water spray. Surfaces designated for treatment should wet uniformly. Protect from pools or puddle water for at least 72 hours.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application. For best results, floors should be treated with C² Super Hard, C² Hard or C² Hard Blend prior to application of C² Seal.

Spray applicators equipped with a fan spray tip have proven effective for application of this product.

For best durability and stain resistance, burnish freshly installed C² Seal with a high speed burnisher using a C² Heat Pad. Best results are achieved when burnishing heats the floor to 33°C (91°F) or greater immediately after passing.

PRODUCT DATA SHEET: C² Seal



Maintenance

Sweep the floor daily with a microfiber pad or dry dust mop. When needed, dry buff with a high-speed burnisher to refresh gloss.

Though C² Seal improves the resistance of concrete floors to staining, acidic substances, including foods, may etch the floor and leave a residual stain. All spills must be cleaned up as quickly as possible.

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.

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 Crete Colors floors.

To restore maximum shine to high traffic areas, dilute C² Seal with one part water and repeat Application Instructions steps 1–5 in affected areas.

If additional protective treatments or surface coatings are desired, contact us directly at sales@cretecolors.com

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.

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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.