C² Seal is a copolymer / lithium 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 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

- Improved early water resistance.
- Produces a long lasting, high gloss finished concrete floor.
- 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.
- Gloss and hardness do not reduce slip resistance.
- Breathable and UV stable. Will not yellow, discolor, peel or flake.
- 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).

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 | 8.99 lbs |
| ACTIVE CONTENT | 22% |
| TOTAL SOLIDS | 22% ASTM D 2369 |
| VOC CONTENT | <100 g/L |
| FLASH POINT | >100°C (212°F) ASTM D 3278 |
| FREEZE POINT | 0°C (32°F) |
| SHELF LIFE | 2 years 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.

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.

24-Hour Emergency Information:

INFOTRAC at +1-352-323-3500
PRODUCT DATA SHEET: C² Seal

PREPARATION

Best practices are to protect all surfaces not designated for to receive C² Seal, including people, vehicles, property, plants, 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.

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.

Application may begin as soon as prepared surfaces are dry and free of ponded water.

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. Do not atomize during application.

Storage & Handling

Keep from freezing. 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, 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

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

Dilute with up to one part fresh water when applying to polished or highly polished concrete.

Typical Coverage Rates

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

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 rate is 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

Calculating Project-Specific 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.
PRODUCT DATA SHEET: C² Seal

3. Measure the test area to establish the target coverage rate per liter. Protect the treated area from moisture for 24 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. Protect from water exposure for 24 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.

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

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.

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 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 polishing pads for high gloss finishes. Best results are achieved when burnishing heats the floor to 33°C (91°F) or greater immediately after passing.

The level of gloss achieved after application is dependent upon the condition of the substrate, including the level of pre-application grinding, exposure of aggregate, etc.
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.

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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.