



C² Tint™

Penetrating, translucent color dye for interior, polished concrete floors

DESCRIPTION

C² Tint™ transforms dull, grey, concrete slabs into decorative, low maintenance finished concrete flooring.

C² Tint™ contains a non-flammable, water-reducible formulation, which penetrates and colors concrete surfaces without risk of etching the concrete or corroding adjacent architectural metals.

C² Tint™ colors may be used alone or in layers to produce an unlimited range of color shades.

Apply the penetrating C² Tint™ to interior concrete floors before hardening with C² Super Hard™ and final polishing. Then apply C² Seal™ to enhance the color and create a high gloss protective finish.

BENEFITS

Decorative

Changes gray concrete into colorful surface. Enhances integrally colored, acid stained and hardened concrete. Produces unique colors on any concrete surface regardless of age. Adds color and depth to diamond polished concrete while additional coats may be applied to improve color depth, uniformity and color intensity.

Attractive

Available in 18 standard colors, which can be intermixed to achieve the ultimate color range.

Compatible

With all C² lithium hardeners, densifiers, sealers and cleaners. Tiny molecules penetrate deeper than conventional color pigments or acid stains

Cost-Effective

Supplied as a color concentrate, C² Tint™ minimizes freight, handling, storage and container disposal costs.

Penetrating

Not a surface coating. It will not flake or peel off. Multiple coats will increase intensity of the color. Controlled drying allows color to be added and blended without risk of streaking.

Versatile

Ideal for new and existing concrete, regardless of age. Suitable for applications on any cementitious surface. Does not reduce slip resistance.

Planet Safe

Contains no harmful acids. Will not etch polished concrete surfaces or corrode surrounding metals. No need to neutralize. Water-based, contains no solvents, non-toxic, no smell, non-flammable, non-corrosive, suitable for use in occupied spaces fast drying, easy to apply. Non-mutagenic and carcinogenic (safe in food preparation areas),

COMPLIANCE

Complies with all known national, state and district AIM VOC regulations: Safe for use in food and drug processing industries.

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

Technical Data

FORM	Colored Liquid Concentrate
SPECIFIC GRAVITY	1.00
ACTIVE CONTENT	13.75
TOTAL SOLIDS	13.75
pH	NA
WT/GAL	8.34 lbs
FLASH POINT	>100°C (212°F)
FREEZE POINT	0°C (32°F)
VOC CONTENT	<100 g/L
SHELF LIFE	2 years in unopened, factory sealed container

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 intended for exterior applications or surfaces exposed to intense ultraviolet light.
- C² Tint™ is translucent. Variations in the concrete prior to staining will still be noticeable after staining.
- Not for use on surfaces exposed to standing water.

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

SURFACE PREPARATION

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



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Surface

Protect people, vehicles, property, and nearby surfaces not to be treated from contact with the product or overspray. Use polyethylene or other proven protective material. Use blue painters tape as needed. Avoid duct tape or other masking materials that leave adhesive residues, which inhibit penetration of color stains. Remove all tape and plastic sheeting as soon as practical after staining is complete.

To ensure penetration of C² Tint™, the concrete surface must be clean and dry. Contaminants left on the surface may prevent penetration of the stain. Stain residues left on the surface may track or wash away with maintenance cleaning.

Freshly placed concrete must be at least 21 days old before coloring. Once concrete is placed, protect the surface from all construction activities before staining. Do not store building materials on newly placed concrete surfaces. Avoid standing water. Always prepare a test sample to ensure that the desired results are achieved on the specific substrate.

Equipment

Use a clean, low-pressure sprayer, microfiber pads, brush, roller or rags to apply C² Tint™. Do not atomize. Wear “spiked” shoes when walking in wet C² Tint™.

Air and Surface Temperature

For best results maintain consistent airflow and surface temperature during application.

Air and surface temperature should be 10°C to 32°C.

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.

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

- Test a minimum 1.5m x 1.5m (5ft. x 5ft.) area on each type of masonry.
- Use Crete Colors application instructions.
- Let the test panel dry 3 to 7 days before inspection.
- Keep test panels available for comparison throughout the project.

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

Manufactured under contract for:

Crete Colors International, LLC,
P.O. Box 93542, Phoenix, AZ
85070, USA.

Tel: +1-602-903-2133

E-mail: support@cretecolors.com

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

STORAGE AND HANDLING

Store in a cool, dry place. Once opened, dispense entire contents of C² Tint concentrate at the rate of one bottle per 5 liters of fresh water.

Overspray and spills may be difficult or impossible to remove. Protect surfaces not intended to be stained with plastic during mixing and application.

Published shelf life assumes storage of unopened containers in a dry place. Maintain temperature of 7–38°C. Keep from freezing. Do not crush or tear. Do not reuse container or remove labels.



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

PACKAGING

Pre-measured containers for 5 liters of fresh water.

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

Mix one pre-measured bottle with 5 liters of fresh water to produce ready to use C² Tint™. To reduce color intensity, dilute prepared C² Tint with up to 2 parts fresh water. C² Tint™ colors may be blended to achieve an unlimited range of colors.

PLEASE NOTE:

Diluted C² Tint™ must be use within 24 hours from the time of mixing.

COVERAGE RATES

The coverage rate will vary with concrete quality and porosity. For better color intensity, C² recommends two applications.

First application on concrete prepped to 200-resin diamonds level, estimated at 10–15 m²/liter.

Second Application on concrete prepped to 400-resin diamonds level, estimated at 15–20 m²/liter.

Polished Concrete Surfaces

1. When applying C² Tint™ to concrete surfaces that are to be polished, diamond grind and polish the surface up to the equivalent of #200 grit resin diamonds.
2. Remove all dust and debris using a floor scrubbing machine and fresh water. Allow wet surfaces to dry.
3. Pre-wet a clean microfiber pad with C² Tint™.
4. Apply the prepared C² Tint™ to clean, dry concrete floor using a low-pressure sprayer delivering a conical spray pattern. Apply sufficient material to wet the surface without producing puddles. Avoid over application. Keep a small bucket or rag near to collect drips.
5. Using the pre-wet microfiber pad immediately spread the spray-applied C² Tint™ to ensure uniform wetting and color distribution. Continue spray applying sufficient C² Tint™ to maintain a wet edge with the microfiber pad. Redistribute and work the color into the surface to minimize unintended streaking or patterns. Best results are achieved when two people are used for application – one to spray the product while the other uniformly distributes the product.

6. Avoid walking on freshly stained surfaces. Allow drying thoroughly for 30 minutes before proceeding to Option 1 or Option 2.

Option 1: No Additional Polishing is Desired

1. When no additional polishing is desired, use a floor scrubbing machine and fresh water to remove any excess stain residue. Allow wet surfaces to dry.
2. If additional color or color variations are desired, apply a second coat of C² Tint™ as described in steps 1–6 above. Up to three thin coats produce better results than one heavy coat.
3. Use a floor scrubbing machine and fresh water to remove any excess stain residue. Allow wet surfaces to dry.
4. Apply a single coat of C² Super Hard™ using a low-pressure sprayer. Apply sufficient material to wet the surface without producing puddles. **PLEASE NOTE:** Though it is not necessary to scrub C² Super Hard™ in, use a clean, soft bristle push broom or microfiber pad to spread the product and ensure uniform wetting. Spread puddles of excess material that do not penetrate to adjacent surfaces. Avoid brooming once drying begins. Adjust rate of application to minimize puddles.
5. Allowing excess material to puddle on the floor will extend dry times and create residues, which must be removed.



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Option 2: Additional Polishing is Desired

1. When additional polishing is desired, continue dry polishing up to the equivalent of #400 resin diamonds. Continue polishing until all scratch patterns from the previous step are removed.
2. Remove all dust and debris using a floor scrubbing machine and fresh water. Allow wet surfaces to dry.
3. If additional color or color variations are desired, apply a second coat of C² Tint™ as described in steps 1–6 above. Up to three thin coats produce better results than one heavy coat.
4. Apply a single coat of C² Super Hard™ using a low-pressure sprayer. Apply sufficient material to wet the surface without producing puddles. Allow treated surfaces to dry.
NOTE: Though it is not necessary to scrub Super Hard™ in, use a clean, soft bristle push broom or microfiber pad to spread the product and ensure uniform wetting. Spread puddles of excess material that do not penetrate to adjacent surfaces. Avoid brooming once drying begins. Adjust rate of application to minimize puddles. Allowing excess material to puddle on the floor will extend dry times and create residues, which must be removed.
5. Continue dry polishing until desired finish and exposure is achieved. Proceed to application instructions for sealing.

SEALING

Surfaces colored with C² Tint™ and hardened with C² Super Hard™ must be sealed within 8-hours of using C² Seal™

1. Lightly pre-wet a clean microfiber cloth with C² Seal™
2. Apply a coat of C² Seal™ with a low-pressure sprayer delivering a conical spray pattern.
3. Using the pre-wet microfiber pad and firm downward pressure, immediately spread the product to produce a thin, even coating. Do not allow product to dry before spreading.
4. After spreading, allow to dry tack free, typically 20-60 minutes.
5. Once dry, burnish using a high-speed burnisher fitted with a 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

CLEANUP

Clean tools and equipment with fresh water. Immediately wash with water over sprayed glass, aluminum, or other surfaces.

FINAL RESULTS

For 72 hours, protect freshly stained, hardened and sealed surfaces from contact with water or other liquids, including incidental

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

Prior to building occupancy, protect the floor with a breathable covering, to avoid damage or staining by other trades.

MAINTENANCE

Remove surface dust and debris daily by sweeping the floor with a microfiber pad or dry dust mop.

Many common maintenance procedures have the potential to chemically etch or mechanically abrade finished concrete floors. To avoid such damage, make certain that maintenance cleaners, cleaning pads or brushes are available expressly for use on finished concrete flooring.

Though C² Seal™ is a durable protective coating, improper maintenance or neglect may result in a dull appearance.

If this occurs, clean the floor thoroughly using C² Maintenance™. Once dry, burnish. If burnishing does not restore the floor's luster, spray-apply a light, mist-like "spiff" coat of C² Seal™ and spread evenly with a microfiber pad. Burnish immediately.

Though C² Seal™ improves the resistance of concrete floors to staining, acids and certain foods



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may etch and stain. Clean all spills as quickly as possible.

Use C² Maintenance™ for daily cleaning. C² Maintenance™ contains lithium-silicate to improve surface density and preserve the surface sheen on C² floors.

RECOMMENDATIONS

The C² recommendations for product application must be followed.

Remove loose debris and foreign materials from the area to be treated before application.

Pre-wet the surface with clean water working from the bottom to the top.

Notify all trades that the concrete surface will be the finished floor. Take extra care to avoid damage or staining of the floor during the construction process.

For best results, spread evenly using a microfiber pad and firm downward pressure.

Two applications of C² Tint achieve better color intensity than one heavy coat.

When diamond polishing, apply second coat of stain immediately before final dry polishing step.

Mask neighboring surfaces as needed to control color bleeding. Use shallow saw cuts to separate different colors.

To ensure a wet edge throughout the application, subdivide the surface to be stained into small working areas using control joints, walls and other fixed objects as natural termination points. When practical, stop the day's application at a control joint or a defined feature in the floor.

Wet or dry grind before applying C² Tint. Dry grind or dry polish only after applying C² Tint. Harden concrete with C² Super Hard™ after staining.

When spraying, maintain consistent flow rate and a conical spray pattern. Keep a small bucket or rag on hand to collect drips when not spraying.

Sequence your application to minimize walking and tracking through the wet color hardener.

PLEASE NOTE: If additional protective treatments or surface coatings are desired, please consult Crete Colors International or its local representative for recommendations.

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

FIRST AID

Ingestion:

Drink large quantities of water or milk. DO NOT induce vomiting. Seek medical attention immediately.

Eye Contact:

Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open. Seek medical attention immediately.

Skin Contact:

Wash contacted area with soap and water. DO NOT attempt to neutralize with chemical agents. If irritation persists, seek medical attention.

Inhalation:

Remove affected person to fresh air. Wash mouth and nasal passages with water repeatedly. If breathing difficulties persist, seek medical attention.



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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

