



C² Joint Fill™

Rapid Set, Semi-Rigid Polyurea Joint Filler

PRODUCT DESCRIPTION

Composition: C² Joint Fill™ is a rapid setting polyurea liquid of 100% solids content. When cured, C² Joint Fill™ is a gray, rubberlike solid with a hardness of Shore A88-92.

Basic Use: C² Joint Fill™ was developed to fill and protect joints in trafficked industrial and retail concrete floors. Its primary function is to support traffic and protect joint edges. C² Joint Fill™ is intended for use where final temperatures are from 0°C (32°F) to +49°C (120°F).

Other Uses: C² Joint Fill™ is also ideal for filling random cracks in industrial floors.

ADVANTAGES

- C² Joint Fill™ is rated “Heavy Duty”. Unlike softer polyureas, C² Joint Fill’s™ higher shore hardness provides greater edge protection and support
- C² Joint Fill™ is “Rapid-Setting”. At 21°C (70°F) it can be opened to full traffic in as little as (60) minutes and light traffic in (30) minutes
- C² Joint Fill™ maintains a consistent color profile and resist fading and other discoloration under normal conditions
- C² Joint Fill™ is “Non-Staining”. In normal slab surface conditions, C² Joint Fill™ does not exhibit residual concrete staining often associated with semi-rigid fillers
- C² Joint Fill™ is ideal for use in Stained/Polished concrete floors. C² Joint Fill™ can be used to fill joints and cracks in polished concrete floors and will not smudge or smear during grinding/polishing

COLOR

Standard color is Standard Gray. C² Joint Fill™ is also available in color matches for our C² Tint™ and C² Color Hard™ dyes. Please see C² Joint Fill™ color match chart for details.

PACKAGING

C² Joint Fill™ is available in 600ml (300x300) dual cartridge kits. All cartridge kits include a static mixer. C² Joint Fill™ is also available in bulk kits of 36 Liters (2-18 liter units A & B).

USDA/FDA Regulated Facilities

C² Joint Fill™ is acceptable for use in floors subject to USDA and FDA inspection and regulation.

USGBC LEED Projects

C² Joint Fill™ contains no VOC’s (0%) and is fully compliant with USGBC LEED green building standards.

Food Related Facilities

C² Joint Fill™ is acceptable for use in facilities regulated by USDA/FDA. Contact us to discuss project details if contamination is a concern.

LIMITATIONS

- C² Joint Fill™ is not recommended for use under VCT or other non-breathing flooring systems
- C² Joint Fill™ is designed for interior use and may not be suitable for outdoor applications due to thermal movement
- C² Joint Fill™ is not designed for use in temperatures below 0°C (32°F)
- C² Joint Fill™ may exhibit bubbling and/or compromised adhesion if concrete or ambient moisture levels are excessive

STORAGE AND HANDLING

Store in a cool, dry place with adequate ventilation. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Keep from freezing. Maintain storage of cartridges between temperature of 20-33°C (70-90°F)



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Manufactured under contract for:

Crete Colors International, LLC,
8380 South Kyrene Rd. Suite #107
Tempe, AZ 85284, USA.
Tel: +1-480-426-0424
Fax: +1-480-499-5550
E-mail: support@cretecolors.com

90 days or longer to permit for greater concrete shrinkage/joint opening, lessening the expected incidence of joint filler separation. Ambient areas should be stabilized at final operating temperature prior to installation, refrigerated/frozen goods areas stabilized and held for an additional 7-14 days or longer if possible.

TECHNICAL PROPERTIES

Typical Physical Properties

Shore "A" Hardness at 21 °C	A86-90
Tensile Strength	970 PSI
Tensile Elongation at 21 °C	180%
Adhesion to concrete	350-400 PSI
Tack Free at 21 °C	5 Min.
Mix Ratio by Volume	1 : 1
Traffic Ready	1 Hour
Shrinkage	Negligible
Solids Content	100%

Joint Preparation:

Joints should be completely free of saw laitance, dirt, debris, coatings/sealers and frost or visible moisture. Joint cleaning procedures must accomplish the removal of all of the above. Failure to do so will compromise adhesion. Simply "raking" debris out of the joint is not an acceptable cleaning method. Preferred methods of joint cleaning include using a dustless concrete saw with diamond blade (ensure blade is slightly wider than joint or clean both sides) or sandblasting. No primer is needed. If unusual conditions are present, contact Crete Colors for assistance.

Choking off the base of the joint is normally not required due to C² Joint Fill™ rapid set. Do not use compressible backer rod in saw cut joints less than 51mm (2") deep.

Prior to Dispensing:

Thoroughly read MSDS and complete installation instructions prior to opening containers or attempting to dispense.

C² Joint Fill™ must be dispensed with dual-feed power dispensing equipment, or with pre-filled dual-dispense cartridge kits. Manual dispensing is impractical due to short working life (1-2 minute gel time). Power dispensing systems should be set to a 1:1 ratio by volume. If installing in cooler temperatures, material should be maintained at a minimum temperature of 24 °C (75 °F) for best results. We recommend the use of a ½" (about 13mm) diameter (ID) static mixer with 32 elements or more for material dispensing and proper mix. We strongly recommend performing periodic ratio checks on power dispense units to ensure proper cure.

Material provided in pails should be thoroughly mixed to redistribute and settlement that may have occurred during shipping or storage. Cartridges should be shaken aggressively to accomplish the same.

INSTALLATION

Correct Joint Design/Installation:

C² Joint Fill™ should be installed full joint depth in saw-cut construction/control joints (or 51mm (2") min. in saw-cut joints exceeding 2" in depth) per PCA and ACI guidelines.

In construction (formed) joints that are not saw-cut, C² Joint Fill™ should be installed at a minimum 51mm (2") depth. **DO NOT USE COMPRESSIBLE BACKER ROD IN STANDARD SAW CUT CONSTRUCTION/CONTROL JOINTS!** Rod may be used 51mm (2") down in construction joints or saw cut joints exceeding 51mm (2") ONLY.

When to Install – The installation of C² Joint Fill™ should be deferred as long as possible after slab placement and should not be installed prior to 30 days to ensure adequate adhesion. ACI recommends a slab cure of 60-



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Pump tanks, lines and dispensing manifold should be clean and free of any residual materials remaining from previous filler installations.

Dispensing:

Joints can be filled in one or two passes, depending upon joint depth and dispensing tip used. Preferred method is to fill from bottom to top using a dispensing tip that fits into the joint. Take care not to entrap air bubbles. Slightly overfill the joint, leaving a crowned profile, and allow to cure.

Finishing:

The crown may be easily razored off as early as 15 minutes after placement, depending upon temperatures. We recommend testing various shave times to find the optimal shave which results in a filler profile that is flush with the floors surface and free of any film from material overfill. If shave time is substantially delayed or if temperatures are low, C² Joint Fill™ shaving process may be more labored.

Should filler cure below the floor surface (due settlement into the void at base of joint, etc.), remove top 13mm (1/2") of filler and re-apply C² Joint Fill™.

Grinding/polishing operations should be deferred for one hour or more after placement.

Clean-Up:

Spills of unmixed components can be cleaned up with solvent (MEK, denatured alcohol, etc.) or scraped/shaved off floor and tools if cured.

If using dual-component cartridges:

Prepare cartridge for dispensing with static mixer and flow restrictor per kit instructions. Material should be dispensed at a moderate pace using steady pressure. After dispensing begins keep cartridge pointed down at all time to prevent cross contamination. Keep a waste container (disposable cup) handy to purge C² Joint Fill™ liquid at start of application and/or if dispensing is delayed for more than 45 seconds (to avoid cured material in mixer tip).

MAINTENANCE

Once cured, C² Joint Fill™ is basically maintenance free. If joints should open after installation, fill voids with additional C² Joint Fill™.

APPROXIMATE COVERAGE RATES

Joint Size (Metric)-M/L		Joint Size (US)- LF/L	
3 x 38mm	8 M	1/8x 1 1/2"	26 LF
3 x 44mm	7 M	1/8x 1 3/4"	23 LF
3 x 50mm	6 M	1/8x 2"	20 LF
5 x 19mm	11 M	3/16x 3/4"	36 LF
5 x 25mm	8 M	3/16x 1"	26 LF
5 x 31mm	7 M	3/16x 1 1/4"	23 LF
5 x 38mm	6 M	3/16x 1 1/2"	19 LF
5 x 44mm	5 M	3/16x 1 3/4"	16 LF
5 x 50mm	4 M	3/16x 2"	13 LF
6 x 25mm	6 M	1/4x 1"	21 LF
6 x 31mm	5 M	1/4x 1 1/4"	16 LF
6 x 38mm	4 M	1/4x 1 1/2"	13 LF
6 x 44mm	4 M	1/4x 1 3/4"	12 LF
6 x 50mm	3 M	1/4x 2"	11 LF

SAFETY INFORMATION

C² Joint Fill™ is for industrial use only. Use in well ventilated areas. Practice all normal job site safety precautions (clear work area, etc.). Thoroughly review MSDS for additional information prior to use.

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.



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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.

Customer Service

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

WARRANTY

Crete Colors International, LLC solely and expressly warrants that C² Joint Fill™ shall be free from defects in material and workmanship for 180 days from the date of purchase. Unless authorized in writing by an officer of Crete Colors, no other representations or statements made by Crete Colors or its representatives, in writing or orally, shall alter this warranty. Crete Colors makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Crete Colors product fails to conform with this warrant, Crete Colors will replace the product at no cost to the purchaser. Purchaser's sole remedy in any case shall be limited to the purchase price or replacement cost of product and specifically excludes labor and the cost of

labor, lost wages and opportunity costs, and all other possible incidental, consequential or special damages resulting from any claim of breach of warranty, breach of contract, negligence or any legal theory. Any warranty claim must be made within six (6) months from the date of material purchase. Crete Colors does not authorize anyone on its behalf to make any written or oral statements which in any way alter the installation procedures or written installation instructions published in its product literature or on its packaging labels. Any installation of Crete Colors products, which fails to conform with such installation information or instructions shall void this warranty. Purchaser shall be solely responsible for determining the suitability of Crete Colors products for the purchaser's intended purpose.