



CC VO Crete - Vertical Overhead

SINGLE COMPONENT POLYMER-MODIFIED REPAIR MORTAR

ITEM NUMBER CC VO CRETE 50

DESCRIPTION

CC VO CRETE is a single component, polymer-modified, fiber-reinforced cement-based mortar formulated to structurally repair deteriorated concrete.

INDUSTRY USES

Use on vertical or overhead surfaces for repairs from ¼ to 2 inches (6 to 51mm) or apply it in lifts for deeper applications. Use for building facades, balconies and columns, beam and soffit repair, bridges and retaining walls. Also used for general spalled areas, tuck pointing, parking structures, tunnels and horizontal application.

BENEFITS AND FEATURES

- Made in America
- Polymer-modified, fiber reinforced
- Non-sag, low slump
- Low Shrinkage
- Thermally compatible one component
- Increases durability and freeze-thaw resistance; excellent adhesion; improves flexural strength
- Hangs 2 inches (51mm) in one lift vertically & overhead; increases job-site productivity
- Stable bond line resists perimeter cracking
- Prevents delamination caused by temperature changes
- Factory-controlled polymer-to-cement ratio; ready to use; easily mixed with water on the job-site

TECHNICAL DATA

LABORATORY TESTS:	RESULTS
Initial Set Time @ 72°F	18 Minutes
Final Set Time @ 72°F	22 Minutes
Working Time @ 72°F	25-55 minutes
Compressive Strength: ASTM C 109	1 day 2,800 psi (19.3 MPa) 7 days 5,500 psi (37.9 MPa) 28 days 6,500 psi (44.8 MPa)

COVERAGE

Approx. 0.45ft³/50 lb. bag

PACKAGING

50 lb. bag

Shelf Life: 1 year in original unopened container

Storage Conditions: Store in unopened container in a dry and cool area Application Temperature Range: 40° F – 90° F (5° C – 32° C).

LIMITATIONS

Apply only when the surface and ambient temperature are 45-50°F (7-10°C) and rising. See Cold Weather Application guidelines, per ACI, for applications in temperatures less than 50°F (10°C). Applications made during temperatures greater than 85°F (29°C) should follow Hot Weather Application guidelines, per ACI.

The minimum required thickness is ¼ inch (6mm).

Application depths greater than 2 inches (51mm) must be completed in lifts.

Do not add more water than specified.

Do not add additional powder from other units

Do not over mix



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SURFACE PREPARATION

(See ICRI guidelines)

1. Remove loose and deteriorated concrete by mechanical chipping or sandblasting to obtain a fractured aggregate surface.
2. Detail the edge of the patch to a 90° angle and ¼" deep to eliminate feathering edge.
3. Make sure surfaces are sound, clean and free of all bond-inhibiting materials including oil, dirt, dust and laitance and standing water

MIXING

Use CC VO Crete at a preconditioned temperature of 71 ± 5° F (22 ± 3° C). Use 6.0 to 6.5pts (2.83 to 3.08 L) of water per 50lb (23kg) bag. Mixing must be achieved mechanically using a slow-speed, ¾ inch (19mm) drill and mixing paddle. Pour 6.0pts (2.83L) of water into a clean 5 gallon (19L) mixing bucket.

Mix while slowly adding the powder, one-third at a time. If more water is needed, up to one-half pint (0.24L) may be added. Mix up to 4 minutes to a uniform lump-free consistency. Avoid over mixing which could entrap air.

APPLICATION

Apply only to sound and clean properly prepared frost-free surfaces. Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water on the surface (saturated surface dry/SSD). **IMPORTANT:** Work a scrub coat of the mixed material into the substrate to ensure intimate contact and establish bond. Complete the repair while the scrub coat is still wet and trowel to the desired finish. CC VO Crete can be applied to a thickness of 2 inches (51mm) in one lift. For application depths greater than 2 inches (51mm) apply CC VO Crete in successive lifts. For additional lifts, scarify the first lift and allow it to set until hardened sufficiently to accept the next lift, about 30 minutes at 73° F (23°C). Trowel the final lift to the desired finish. Applications made during temperatures below 50°F (10°C) or above 85°F (29°C) should follow appropriate application guidelines.

Curing

Direct sun or wind may cause unwanted rapid surface drying. Curing may be accomplished by continuous water fogging for 48 hours or cover with damp burlap or burlene curing blankets. Do not use solvent-based curing compounds. If a coating or sealer will be applied use water fogging or blanket curing methods and prep finished surface per manufacturer's recommendations.

CLEAN UP

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

CAUTION

Safety Considerations

- Use adequate ventilation.
- Use of NIOSH/MSHA approved dust vapor respirator, safety goggles and protective gloves are recommended.

First Aid

- **EYE CONTACT:** Flush immediately with water for at least 15 minutes. Contact physician immediately.
- **RESPIRATORY CONTACT:** Remove person to fresh air. If the discomfort persists, breathing difficulty occurs, or if swallowed seek medical attention.
- **SKIN CONTACT:** Remove any contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, seek medical attention.

KEEP CONTAINER TIGHTLY CLOSED – KEEP OUT OF REACH OF CHILDREN – NOT FOR INTERNAL CONSUMPTION – FOR INDUSTRIAL USE ONLY

LIMITED WARRANTY

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