



# CC Hydraulic Cement

## RAPID SETTING WATER STOP MORTAR

### ITEM NUMBER CCHC

### DESCRIPTION

CCM Hydraulic cement is a single component, expanding, hydraulic cement based water-stop mortar. Formulated to stop active running water and seeping water through cracks in concrete and masonry under hydrostatic pressure, through openings in concrete or masonry.

### WHERE TO USE

CC Hydraulic Cement can be used to quickly and permanently stop running water through seeping cracks, holes, joints, vertical or horizontal masonry and concrete surfaces under hydrostatic pressure. Other applications include: To quickly and permanently plug and seal construction holes left by wood or steel separators, form ties or tie wire cut-offs. As a rapid-setting anchoring grout for ornamental/functional iron, dowels and bolts where continuous high vibration is not a factor. By plumbing and electrical trades to permanently grout openings around clay, plastic and metal pipes, boxes and fixtures placed in masonry and concrete walls. Filling and resurfacing honeycombs and surface breaks in precast and poured in-place concrete, as well as cracked and broken masonry joints.

### TECHNICAL DATA

LABORATORY TESTS:	RESULTS
Initial Set Time @ 72°F	1 minute 30 seconds
Final Set Time @ 72°F	2 minutes 30 seconds
Working Time @ 72°F	1 minute
Compressive Strength: ASTM C 109: 15 min. 1 hour	1000 psi. 1500 psi

### COVERAGE

One pound (.45 kg) of Hydraulic cement will fill 19 cubic inches (312 cm<sup>3</sup>) or 6.3 lineal feet of crack ½ inch deep and ½ inch wide (192.8 cm x 12.7 mm x 12.7 mm).

### PACKAGING

50 lb. Pail (22.7kg)

8 lb. Pail (3.63 kg)

Shelf Life: 1 year in original unopened container

Storage Conditions: Store at 40° F – 95° F (5° C – 35° C). Condition material to 65° F – 85° F (18° C – 29° C) before using.

### LIMITATIONS

Minimum material, surface and ambient temperature must be 40°F. Max Temperature is 95°F

Do not allow material to freeze

### SURFACE PREPARATION

A clean, sound and contamination free surfaces are required for hydraulic cement to work properly. Mechanically or manually remove all loose or defective material from areas to be repaired. Provide sound mechanical key by undercutting (preferred) or square cutting (acceptable), an opening for the entire length of the hole, crack or joint to be sealed. Prepared patch area should be minimum ½ inch wide and ½ inch deep (12.7 mm x 12.7 mm) (**DO NOT V CUT**). Area must be SSD (Saturated Surface Dry) before and after packing in the hydraulic cement.

### MIXING

For all applications (except re-surfacing) mix only as much material at one time as can be placed in 60 to 90 seconds. Dampen the mixing container; add 60 to 90 seconds supply of hydraulic cement powder to sufficient clean, cool water while vigorously kneading to bring to a stiff putty-like consistency. Always add powder to water. For re-surfacing with sand addition, pre-mix the dry sand and dry hydraulic cement powder and proceed as above. Bring wetted material to a slurry consistency.

## **APPLICATION**

To stop running water, start at the top or end of the prepared opening and force hydraulic cement mortar firmly into the opening with a packing action, but with a minimum working of the surface. Where water is flowing under pressure and likely to force the material out of the opening, hold the putty-like hydraulic cement in the palm of the hand until the mix feels warm. Then immediately force the warm hydraulic cement into the opening and keep pressure on the plug with the heel of the hand or trowel until the material hardens and water stops flowing. After setting occurs, the surface may be scraped for leveling. Where water pressure is not present, non-sag, putty like hydraulic cement is firmly forced into the opening for a complete fill. In anchoring applications, place the mix in the opening and force the metal fixture in at the center of the plugged opening. Tamp firmly around the surface and keep the mortar surface moist for 15 minutes. The imbedded fixture may be safely utilized after 10 hours. For re-surfacing, place with a gloved hand as a float. Level while rubbing. For smoother final surface the patch can be re-dampened immediately after its initial set and the surface worked with a clean steel trowel or similar hard, smooth tool.

## **CLEANUP**

Ventilate area. Confine spill. Collect with absorbent material, flush area with water. Dispose of in accordance with current applicable local, state and federal regulations. Uncured material can be removed with water. Cured material can only be removed mechanically.

## **CAUTION**

### Safety Considerations

- Product is alkaline on contact with water and may cause injury to skin or eyes. Use of safety goggles and chemical resistant gloves are recommended
- Use of NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate
- Avoid breathing vapors. Ingestion of inhalation of dust may cause irritation. This contains free respirable quartz, which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.
- Avoid skin contact

### First Aid

- **EYE CONTACT:** Flush immediately with water for at least 15 minutes. Contact physician immediately.
- **RESPIRATORY CONTACT:** Remove person to fresh air.
- **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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CCM warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User



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Material, LLC

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