



CEM240

Polymer Modified Thin Repair Mortar - Up to 12 mm Thickness in One Application

PRODUCT DESCRIPTION

CEM240 is a one-component polymer modified cementitious compound, which requires only addition of clean water to produce a fairing fine finish patching and repairing concrete and masonry surfaces.

CEM240 fairing compound can be used at a thickness from featheredge to a 12 mm thickness in one application.

At 75°F (25°C), CEM240 has an initial setting time of approximately 250 minutes and final setting time of 290 minutes; this allows work to continue with little delay. Actual set time vary depending on ambient and substrate temperatures.

The finished patch of CEM240 is dense, crack resistant, durable, and has exceptional strength.

FIELDS OF APPLICATION

CEM240 may be used to patch and repair interior and exterior, above or below grade, vertical horizontal or overhead concrete and masonry surfaces.

Specific uses include resurfacing and leveling, filling small holes, honeycombs and spalled areas and tuck-pointing both cracks and mortar joints.

PRODUCT FEATURES

- Easily mixed by simple addition of water on site.
- Excellent thin layer adhesion
- Smooth finish ready to receive surface paints
- Can be used for repairs and resurfacing from featheredge to 12 mm thickness
- Durable and water-resistant
- Crack resistant
- Exceptional mechanical strengths

PACKAGING

Product	Packaging
CEM240	55 Lb (24.948 Kg) Bag

TECHNICAL DATA

Property		Value *	Standard
Compressive Strength, psi (MPa)	1 day	1498 (10.33)	ASTM C109
	7 days	5569 (38.40)	
	28 days	6817 (47.00)	
Flexural Strength, psi (MPa)	1day	435 (3.00)	ASTM C348
	7 days	1175 (8.10)	
	28 days	1334 (9.20)	
Setting Time**, minute	Initial	250	ASTM C191
	Final	290	
Pot Life**, minute		25	-
Density - set mortar, Lb/Gal (Kg/Liter)		18.03 (2.160)	-
Adhesion Strength		Concrete Failure	ASTM D4541 - Method A

* Average

** Test at 75°F (25°C).

APPLICATION DATA

Limitations:

- Do not apply CEM240 more than ½ inch deep in one application.
- Do not use CEM240 in cracks that are structural and especially live cracks.
- Do not apply CEM240 to frozen or frost filled surfaces or at temperatures below 4°C, or if temperature is expected to fall below 4°C within 24 hours.

Water requirement: 1.022 Gallon (3.867 Liter) of water is required for the 55 Lb (24.948 Kg) Bag of CEM240.

Coverage: 55 Lb (22.68 Kg) Bag of CEM240 covers approximately 11.8 ft² @ 0.5 inch thickness (1 m² @ 14 mm thickness).

Surface Preparation: Surfaces must be structurally sound, clean and free of dirt and all other contaminants. Clean and properly prime all exposed reinforcement, if any. When the substrate to be patched is non-absorptive, abrade as necessary to ensure proper bonding. Light sweep blasting would be sufficient to achieve good surface for bonding. Any oil and grease contaminants should be removed by proper methods such as using CHEM-CRETE CONCLEAN CCC060 degreasing solution.

Dampen the surface with clean water immediately before application. Wipe up excess water on horizontal surface to prevent dilution of the mixed CEM240.

Mixing: Mix CEM240 in a clean container using a slow speed electric drill fitted with mixing paddle. Do not aerate while mixing. For smaller quantities, mix with a hand trowel. Pour clean water into the container and gradually add the CEM240.

Mix thoroughly to dispense all ingredients and to achieve trowelling consistency. Do not use excess water.

Application: Thoroughly dampen areas with clean water immediately before patching. Apply sufficient pressure to fill all holes and voids, and then trowel to a smooth finish. On large areas, use a screed to obtain a uniform level before trowelling, do not over-trowel.

CEM240 should be applied with a minimum of working time and should be allowed to partly set before trowelling to a final smooth finish. Depending on the smoothness of surface texture requirements, a small amount of water may be splashed on to a partially set surface of CEM240 and then troweled to a smooth finish.

Curing: Immediately after placement, keep wet and protect surfaces from rapid moisture loss. Protect exposed areas from excessive heat and cold. Cover surfaces with wet burlap and keep damp for minimum 24 hours.

CLEANING

Clean all tools, equipment, etc. from CEM240 with clean water before the product reaches initial setting. Cured material may only be removed by mechanical means.

STORAGE

Store CEM240 in cool and dry storage facility. Do not expose to direct sunlight. Product has a shelf life of approximately 12 months if stored in a cool and dry place and in unopened bags.

SAFETY PRECAUTIONS

CEM240 is a non-flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature. Splashes of CEM240 should be washed off immediately with clean water. Wear necessary gloves and dust mask.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International Chem-Crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AM210420.

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