



CEM 210

Polymer Modified Cementitious Floor Repair Mortar

PRODUCT DESCRIPTION

CEM 210 is a one-component polymer modified quick setting and durable cement based repair mortar system. **CEM 210** consists of a balanced blend of washed and graded silica sands to promote knitting, Portland cement, fluidifiers and shrinkage control additives.

CEM 210 is free of gypsum, chlorides or corrosive type materials.

FIELDS OF APPLICATION

CEM 210 is a non-shrink cementitious repair mortar with greater flexural and shear bond strengths. The non-shrink quality of **CEM 210** remains constant throughout the life of the repair patch. The time proven uses of **CEM 210** assures precise repairs to concrete, bridge decks, airports, runways, ramp and stair repair, truck docks, industrial floor pre-cast and pipe concrete members.

CEM 210 is a non-metallic and non-staining and is excellent for use in high humid, wet and cold conditions and therefore is suited for:

- * Paper mills.
- * Food processing plants.
- * Bottling plants.
- * Heavy industrial plants.
- * Sewage treatment plans, etc.

CEM 210 is also good for anchoring bolts, rails, pipes, pre-cast or pre-stress members.

PRODUCT FEATURES

- * One component ready-to-use.
- * Non-staining and non-metallic.
- * Excellent for use in high humid areas.
- * Non-shrink.
- * High mechanical strength.
- * High abrasion resistance.
- * Excellent adhesion to damp concrete.
- * Does not contain gypsum, chlorides or corrosive type material.
- * Rapid setting and quick placement in service.

PACKAGING

Product	Packaging
CEM 210	50 lb /bag (22.7 kg/ bag)

TECHNICAL DATA

Setting Time: ASTM C-191 at 77° F (25° C)

Initial setting time	30 minutes
Final setting time	40 minutes

Compressive Strength at 77°F (25°C): ASTM C-109

One day Psi (MPa)	1470 (10)
7 days Psi (MPa)	7050 (48)
28 days Psi (MPa)	8820 (60)

Flexural Strength at 25°C: ASTM C-348

One day Psi (MPa)	630 (4.3)
28 days Psi (MPa)	1470 (10)

Mixed Density: 18.3 lb/gal (2.2 kg/L)

APPLICATION DATA

Surface Preparation:

Clear surfaces contaminated with oil, grease, dirt and laitance down to sound concrete. In high traffic areas, under-cut the patch hole by 2 inches to avoid feather edging. If any steel reinforcement exposed in the area of repairs remove rust, milscale from the steel by thorough abrading to a bright metal.

Apply a zinc rich primer such as **Chem-Crete Zinc Rich Primer** one full coat all around the steel reinforcement and allow curing before placement of repair mortar. Saturate the surfaces with water thoroughly. Remove all excess standing water and leave the dampness on the surface. **CEM 210** repair mortar should only be placed to substrates, which are damp and free from standing water.

Mixing: Mix **CEM 210** with a paddle type mortar mixer.

Water consumption: Approx. 0.68 gal (2.6 L) /50 lb bag

Place $\frac{3}{4}$ quantity of the measured water into the mixing container. Add slowly **CEM 210** while mixing. Add the remaining quantities of water and mix until smooth, putty like consistency is achieved.

Mixing Time: Approx. one-two minutes

Avoid mixing more **CEM 210** more than can be used in 20 minutes.

For deeper patches over 1.5 in (38 mm), add 22 lb of $\frac{1}{4}$ inch (6-8 mm) pea gravel (cleaned and washed) per 55lb bag of **CEM 210**.

Note: Ambient and water temperatures affect setting time. Higher temperatures results in shorter setting time.

Priming: Generally **CEM 210** can be placed on dampen concrete surface straight away. Use of **Chem Bond CCC 550** or **EB 550 SBR** will improve adhesion monolithic bond.

Placing: Immediately upon mixing of **CEM 210**, place the mortar firmly into the damp area and form to final surface configuration in one application, working from edge to eliminate air voids.

Smoothen the surfaces to uneven leveled finished lay using steel trowels, plastic or wooden floats. Upon completion of the surface finish, do not over work.

Curing: Immediately after placement, keeps 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 and equipment from **CEM 210** with clean water before the product reaches initial setting. Cured material may only be removed by mechanical means. Tools and equipment contaminated with **Zinc Rich Epoxy Primer** can be cleaned using blended solvents.

STORAGE

Store **CEM 210** in cool dry storage facilities. Do not expose to direct sunlight.

Shelf Life: Product has a shelf life of approx. 12 months if stored in a cool dry place in unopened bags/pails.

SAFETY PRECAUTIONS

CEM 210 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 **CEM 210** 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 a 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. AA/0706.

Distributed by

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