CEM150
Super Concrete Mortar

PRODUCT DESCRIPTION

CEM150 Super Concrete Mortar is a one component rapid concrete repair mortar which requires only the addition of water to produce a durable, very rapid strength-gaining material for permanent repair of concrete. CEM150 Super concrete mortar is a special blend of Portland cement, graded silica sands and a proprietary admixture developed by International Chem-Crete.

FIELDS OF APPLICATION

CEM 150 Super Concrete Mortar is designed for the durable repair of poured in place concrete and pre-cast concrete substrates which require a very rapid strength gain and high strength characteristics.

- Factory Floors
- Warehouse Floors
- Hangars Floors
- Loading Bays
- Cold Storage and Dairy Plants
- Highway Repairs

CEM 150 is suitable where high impact resistance, compressive strength, good abrasion resistance, durable and early strength gaining repairs are requirements.

PRODUCT FEATURES

- One component requires only the addition of water.
- Excellent workability.
- Excellent Adhesion to most Substrates.
- High Compressive Strength.
- Freeze /Thaw Resistant.
- Does not contain any additive, which may cause corrosion of steel reinforcement.
- Non-shrink.

PACKAGING

Product	Packaging
CEM 150	50 Lb Bag (22.7 Kg Bag)

TECHNICAL DATA

Curing	ASTM C-266 @ 70°F 21°C
Supplied as	Grey color cement powder with selected silica aggregate
Density (set mortar)	19.3 Lb/gal (2.32 Kg/L)
Pot Life at 75°F/25°C	40 minutes

Compressive Strength: ASTM C-109

1 day Psi (MPa)	4340 (29.5)
7 days Psi (MPa)	9440 (64.2)
28 days Psi (MPa)	11440 (77.8)

Flexural Strength: ASTM C-348

1 day Psi (MPa)	970 (6.6)
7 days Psi (MPa)	1540 (10.5)
28 days Psi (MPa)	1910 (13.0)

Setting Time: ASTM C-191 at 75°F/25ºC

Initial	2 hours. 30 minutes
Final	3 hours. 30 minutes

APPLICATION DATA

Limitations:
CEM150 Super Concrete Mortar is a water sensitive material, maintain recommended water volume criteria.
Do not apply less than 1 inch / 2.54 cm in depth.
Do not add additional water to CEM 150 once mixed to extend workability.

Mixing Ratio:
¾ gallon (2.95 L) of water for the 50 lb bag of CEM150
Accurate measurement of water is very essential.

Coverage:

Thickness	Coverage of 50 Lb (22.7 kg) Bag	
1" (2.54 cm)	6 ft².	0.37 m²
1 ½" (3.80 cm)	5 ft².	0.25 m²
1 ¾" (4.44 cm)	4 ft².	0.21 m²
2" (5.08 cm)	3 ft².	0.18 m²

Note: The above coverage is for estimation purposes only. Slight variations in quantities may occur depending on thickness, site conditions, substrate conditions, etc...

Surface Preparation:
When using a spalled or deteriorated area of concrete chip or saw cut the spalled area to a depth sufficient to remove all deleterious concrete. It is recommended that edges be squared and depth be a minimum of 1" / 2.54 cm. Feather

edging is not recommended. Clean and remove all oil, grease, dirt and loose debris from the area to be repaired.

Vapor Barrier:
Prime all areas with Chem-Crete SofiX CCC100 or Chem-Crete Sofix CCC700 depending on site vapor conditions to serve as a percolation vapor barrier to the existing pre-treated concrete.

Optional Priming:
Apply one coat of Chem Bond to the area to be patched immediately prior to placing the CEM150 Mortar if required. Contact International Chem-Crete for details.

Mixing:
- Use a high intensity mixer with at least twice the volume of the amount to be mixed. Locate the mixer close to the area to be repaired. Ensure that the mixer is clean of any foreign material including water.
- Measure the total mixing water required for each batch. Use clean water for mixing. Accurate measure of water is very important.
- Fill the mixer with half of the quantity of CEM150 to be mixed, and then add all the water. Mix for 90 seconds, then add the second half of CEM150 material and mix for 3-6 additional minutes until a uniform homogenous and smooth mixture is achieved.
- Do not add any other materials to the mix.

Application:
Place the mixed mortar in the area to be patched. Place from one side to the other and work the material into side and bottom of the repaired area to aid in satisfactory bonding.

Screed and level to maintain elevation of existing concrete. Finish by trowel to seal edges, surface, and 3/4 inch / 1.90cm minimum keyed saw-cuts. Featheredging is not recommended.

Do not re-temper the mix by adding water.

Curing: Protect exposed areas from excessive heat or cold until cure is complete (3 hrs. 30 minutes @75°F/25ºC).

CLEANING

Clean all mixing and application equipment with water immediately following use. Remove all splatter of spills with water before material sets.

STORAGE

CEM150 should be stored in original undamaged packs in cool and dry storage place. The shelf life of CEM 150 is one year. The material must not be allowed to freeze or in open sunlight.

SAFETY PRECAUTIONS

CEM150 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 150 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. MN120508.

Distributed by

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