

CEMTEC CPC XTRA

HIGH PERFORMANCE GROUT FOR PILE-CAP REPROFILLING

CEMTEC CPC Xtra is designed for critical use where high strength, non-staining characteristics and positive expansion are required. It contains only natural aggregate and expansive cementitious binder.

CEMTEC CPC Xtra is designed for high compressive strength requirement.

PRIMARY APPLICATIONS

- Pre-Cast Panels Joining.
- Pile cap surface reprofiling
- Honeycomb Repairing
- Repairs to Marine Structures

FEATURES /BENEFITS

- Non-staining natural aggregate for better performance
- Non-shrink providing full structural support
- Flowable and self leveling
- High strength and durability
- Appearance similar to concrete
- Does not contain any added chloride ions

PACKAGING /YIELD

CEMTEC CPC Xtra is packed in 25 kgs bags and yields 0.0125 cubic metre of flowable grout when mixed with 3.125 liters of water.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions at 70°F (21°C)

CEMTEC CPC Xtra - 3.125 liters / 25 kgs bag

120% Flow (flow table)

Compressive Strength

2" (50mm) cubes (ASTM C-109)

1 day	30 MPa
3 days	40 MPa
7 days	56 MPa
28 days	75 MPa

Setting Time ASTM C-191 (Hours)

Initial	3:00 hrs
Final	4:40 hrs

Shelf life in original unopened package is 1 year

APPEARANCE

CEMTEC CPC Xtra is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

DIRECTIONS FOR USE

If the contractor is not familiar with pile cap placement techniques, a pre-job meeting is suggested to review the project details unique to the particular job. Contact your local CMCI representative for additional information.

Careful preparation is a must for a successful grouting operation.

Grouts generally work best at 50-80°F (10-35°C). Cold weather retards strength gain and set time. Hot weather accelerate setting time and causes premature drying of the grout. Provide heating or cooling, as necessary, to compensate for extremes in ambient temperatures and resulting variations in cure time.

Surface Preparation-Saw cut the extremities of the surface to be repaired to a depth of 15 mm in order to provide a square edge. All unsound structurally weak concrete must be chipped off. Oil, grease deposits must be removed by scrubbing.

Any corroded steel reinforcement must be fully exposed and all loose scale and dust must be removed.

Determine work schedule and method of placing grout, then prepare strong, properly braced and oiled forms to retain the pile grout and provide relief holes, if needed. Saturate the area to be grouted with water until it is uniformly damp and remove excess water just before placing the grout. As an alternative Epoprime LP a long pot life epoxy bond-

“High Quality Construction Chemicals”

ing agent is recommended as a primer to the concrete prior to the erection of form work.

Mixing- Small quantities may be mixed with a drill and “jiffy” mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 10°C - 35°C. Take appropriate amount of clean, potable water for the batch size and then add the dry grout. Mix for a minimum of 2-3 minutes. The mixed grout should be quickly transported to the grouting site and placed immediately.

Placing –If placing this product in hot weather, use of cold water will increase the working time.

Curing and Sealing –Proper curing procedures are important to ensure the durability and quality of the grout. Cure the grout with a high solids curing compound, such as CEMTEC KURE N SEAL, KUREKOTE 75 VOX.

Curing Compound must be ordered separately.

PRECAUTIONS/LIMITATIONS

- Do not add any admixture or fluidifiers
- Proper curing is required.
- Employ cold weather or hot weather grouting practices as the temperatures dictates.
- Rate of strength gain is significantly affected at temperature extremes.
- Store product in a dry place.

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QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.