

CEMCRETE PC 5105

**HYPER PLASTICIZER, WATER REDUCING ADMIXTURE FOR
PRECAST CONCRETE (TYPE F)**



DESCRIPTION

CEMCRETE PC 5105 is a ready-to use aqueous hyper plasticizer admixture based on polycarboxylate. **CEMCRETE PC 5105** is particularly designed for precast elements, providing outstanding slump retention, very low water/binder ratios, better workability, and high early compressive strength. **CEMCRETE PC 5105** is a strong Hyper plasticizer allowing the production of consistent concrete properties around the required dosage. This product is very suitable in hot and tropical climatic condition.

FEATURES & ADVANTAGES

- High early and ultimate compressive strength.
- High water reduction (leading to high density and strength) even in double or triple blend mixes (e.g. cement, GGBS, and silica fume)
- Easier control during casting due to sufficient retention period and high early strength development
- Reduced shrinkage and creep
- Increase flexural strength
- Excellent flowability
- Improved resistance to carbonation
- Improved adhesion to reinforcing and stressing steel

BASIC USES

- Designed for Precast concrete structures, Concrete Tunnel Segment etc.
- For Pre-stressed Concrete Elements
- For Post Tensioned segmental concrete bridge
- For Pumped concrete
- For Fiber reinforced concrete with steel, polypropylene fiber and or synthetic
- For High Performance concrete
- For Concrete needs long workability retention

TECHNICAL PROPERTIES

Composition	Aqueous solution of modified polycarboxylate co-polymer
Appearance	Liquid light brown
Specific gravity @ 25°C	1.04±0.01
Chloride content	NIL- BS 5075

DOSAGE

Excellent results are obtained using an addition rate of 0.5 to 3.0 liters/100 kg cement depending on job conditions.

Note: To determine the required setting, performance, workability retention and strength development, trials are recommended to be conducted.

DISPENSING EQUIPMENT

A complete line of accurate automatic dispensing equipment should be available. **CEMCRETE PC 5105** should then be added to the concrete with the mixing water to obtain the best results.

COMPATIBILITY WITH OTHER ADMIXTURES

CEMCRETE PC 5105 should not be used in conjunction with any other admixture unless prior approval is obtained from CMCI Technical Department.

CEMCRETE PC 5105 is compatible for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS, and SRC and micro-silica.

STORAGE

CEMCRETE PC 5105 has a shelf life of 12 months from manufacturing date and keep at temperature between 5°C and 45°C.

CLEANING

The Spillages of **CEMCRETE PC 5105** should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remains should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

HEALTH AND SAFETY

- It is safe for use with standard precautions wear suitable protective clothing, safety goggles and gloves
- If swallowed, do not induce vomiting, and seek medical attention.
- In case of accidental eye contact wash copious quantities of water and seek medical attention.
- Should skin contact occur, rinse the exposed skin with plenty of water, if irritation persist, seek medical attention
- **CEMCRETE PC 5105** is water based and non-flammable

PACKAGING

Available in 10,000 liters bulk tanks, 1000 liters containers or 210 liters drums.



The Trusted Brand in
**CONSTRUCTION
CHEMICALS**

Quality Statement

CMCI manufactures 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.

TSS/30062021-A

"High Quality Construction Chemicals"
CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
P.O. Box 7137, Dammam 31462, Saudi Arabia,
Tel: 00966-13-8471450; Fax: 00966-13-8471575
Email: tech@cmci-sa.com, Web: www.cmci-sa.com

The Technical Specification information and recommendations 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.

CMCI