

# CEMTEC 80E

## NON-CHLORIDE ACCELERATING WATER REDUCING ADMIXTURE



### DESCRIPTION

**CEMTEC 80E** is an accelerating, water-reducing admixture for concrete that does not contain calcium chloride or added chloride ions. It improves properties of plastic and hardened concrete, provides a significant improvement in early stiffening and setting characteristics, improved workability and decreased bleeding and segregation. This admixture is compatible with air-entraining admixtures, HRWR admixtures (super plasticizers) and conventional water reducing system.

### FEATURES & ADVANTAGES

- Reduces initial set 1-4 hours depending on concrete temperature
- improves workability and provides denser concrete
- Minimize bleeding and segregation
- Improves compressive strength development at early ages.
- Decrease overtime allowing earlier finishing
- Increases protection for reinforcement in concrete

### BASIC USES

- Cold weather concreting
- Structural and plain concrete
- Concrete block and mortar
- Precast and post tensioned concrete

### ENGINEERING DATA

- **CEMTEC 80E** meets or exceeds the requirements of ASTM C-494, Type C and E admixture.
- Meets or exceeds the requirements of AASHTO M 194
- ACI 201, Guide for Durable Concrete and ACI 302 Guide for Concrete Floor and Slab Construction prohibit. **CEMTEC 80E** may be used in these types of concrete or galvanized decking, floors, containing two kinds of embedded metal, reinforced concrete in moist environments and/or exposed to chloride deicing salts.

### TECHNICAL INFORMATION

Cement	335 kg/m <sup>3</sup>	335 kg/m <sup>3</sup>
CEMTEC 80E	1 000 ml/100 kg	1 560 ml/100 kg
Slump	(114 mm)	(70 mm)
Air	3.2%	1.8%
Average Compressive Strength;		
3 days	2825 psi (19.5 MPa)	1478 psi (10.2 MPa)
7 days	4138 psi (28.5 MPa)	3257 psi (22.5 MPa)
28 days	5371 psi (37.0 MPa)	5229 psi (36.1 MPa)
Initial set	5 hrs 48 min	7 hrs 46 min

\*Average concrete temperature at or during the test.

**CEMTEC 80E** is typically used @ 1000 ml/100 kg of cement for most work with the exception of concrete block production. As the quantity is increased, the acceleration of setting time and strengths are increased.

### DIRECTION FOR USE

For use in concrete add **CEMTEC 80E** with water and aggregate to the readymix concrete truck, but do not dispense onto dry cement. For temperatures 0-10°C add to the concrete at the rate of 1000 ml/100 kg of cement depending up on the desired rate of acceleration ,early strength gain, stripping schedule, etc. For use in concrete block production in temperatures 0-10°C dose at 325-780 ml/100 kg. For temperatures below 0°C, heat aggregate and use warm water so that concrete temperatures, when mixed, are above 16° C

### CLEAN-UP

Clean tools equipment with water before concrete hardens.

### PRECAUTIONS / LIMITATIONS

- CEMTEC 80E will freeze at temperature of approximately- 26° C. Freezing and thawing will not harm the material if thoroughly agitated.
- Do not use air for agitation
- Do no dispense directly onto dry cement
- Do not use **CEMTEC 80E** with Chemcomp Cement or other modified cements with out consulting CMCI technical department.
- Keep concrete from freezing until a minimum of 500 psi (3.5 MPa) is achieved.

#### PACKAGING

CEMTEC 80E is available in 20 ltr. pails, 210 ltr. drums and 1000 ltr. tanks.

#### 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.

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 warranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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#### "High Quality Construction Chemicals"

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