

CEMCRETE R34

WATER-REDUCING PLASTICIZING AND SET-RETARDING ADMIXTURE FOR CONCRETE (ASTM C-494 TYPE B & D)



DESCRIPTION

CEMCRETE R34 is a chloride free water reducing admixture based on selected lignosulphonate. Ingredients are factory premixed in exact proportions to minimize handling, eliminating mistakes and guess-work.

FEATURES & ADVANTAGES

- **CEMCRETE R34** Is designed to produce a higher compressive flexural and tensile strength in concretes, through water reduction (typically 8 to 10%) and through hydration control of the tricalcium silicate (C3S) phase of the Portland cement. This water reducing action of Portland cement.

- **CEMCRETE R34** produces greater plasticity and workability in the fresh concrete, as well as improved impermeability and reduced shrinkage in the hardened concrete.

- **CEMCRETE R34** is used wherever a delay in setting may be required to ensure sufficient time for delivery, placement, vibration, or compaction. This may be particularly important for:

- I. HOT WEATHER CONCRETING where delayed set will ensure sufficient placement time and improve concrete quality.
- II. TRANSIT MIX CONCRETE to extend setting time on long hauls
- III. BRIDGE DECKS and large slabs where **CEMCRETE R34** extends plastic characteristics of the concrete until progressive deflection resulting from increased loads is complete. This may eliminate the necessity for cold joints.

DOSAGE

Addition rates for **CEMCRETE R34** range from 0.4 liters to 1.2Liters per 100kgs of cement. The amount to be used will depend upon degree of retardation required and temperatures under job conditions.

Longer setting time or higher temperature will require higher addition rates. Conversely, the addition rate will be lower for shorter retardation. Trial mixes are recommended to determine optimum addition rates of **CEMCRETE R34** with available concrete materials and job conditions.

Dosage above the recommended values can be employed. However, the required dosage for specific job with controlled delay setting and workability should be determined by in-situ-trials.

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

COMPATIBILITY WITH OTHER ADMIXTURE

CEMCRETE R34 is compatible in concrete with all commercial air-entraining admixtures. EACH ADMIXTURE SHOULD BE ADDED SEPARATELY.

DISPENSING EQUIPMENT

A complete line of accurate, automatic dispensing equipment is available to suit all types of concrete batching plants **CEMCRETE R34** may be introduced to the mix with the water.

PROPERTIES

Appearance	Dark Brown (Liquid)
Specific Gravity at 25°C	1.16 ±0.02
Chloride Content	NIL- BS 5075

STANDARD COMPLIANCE

CEMCRETE R34 complies with ASTM C494 as Type B and Type D and BS 5075 Part 1.

ENGINEER'S SPECIFICATION

Concrete shall be designed in accordance with ACI Standard Recommended Practice for Selecting Proportions for Concrete (ACI 211.1-74). The water reducing plasticizing admixture shall comply with ASTM designation C-494 Type B and D admixture and shall be **CEMCRETE R34** as manufactured by Construction Material Chemical Industries or one proved to be equivalent. It shall be used in Strict accordance with the manufacturer's recommendations.

The addition rate shall be adjusted to produce the specified retardation of the concrete mix at temperature prevailing at the site.

STORAGE

CEMCRETE R34 has a shelf life of 12 months from manufacturing date and keep at temperature between 5°C and 45°C.

PACKAGING

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



The Trusted Brand in
**CONSTRUCTION
CHEMICALS**

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 persists, seek medical attention.

TSS/11022021-A

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

CMC