

Liquid Crystalline Admixture for Waterproofing Concrete



PRODUCT APPLICATIONS

ConBlock CDA Red is designed to permanently waterproof and protect concrete structures, such as: bridge and highway structures, tunnels and trenches, building foundations, garage and parking structures, below-grade precast structures, wastewater treatment plants, sewer pipes, manholes and water containment tanks.

NSF/ANSI/CAN 61 CERTIFIED FOR USE IN DRINKING WATER STRUCTURES

PRODUCT DESCRIPTION

ConBlock CDA Red is a liquid Permeability Reducing Admixture (PRA) for waterproofing concrete. When added to Portland cement concrete, the compressive strength is 25% greater than reference concrete after one day which allows faster handling of concrete and over 10% after 90 days. The amorphous silica crystal is fast-reacting, allowing performance to be realized immediately. Due to the tightening of the void space, concrete bleeding is reduced, allowing finishing operations to occur more quickly. **After 21 days at 200 psi (CRD-C48) water did not pass through the concrete.** ConBlock CDA Red's Waterproofing properties allow it to be suitable for use in hydrostatic (PRAH) and non-hydrostatic (PRAN) installations.

FEATURES AND BENEFITS

- Easy to use liquid admixture, no clumping.
- Does NOT contain respirable silica.
- Crystalline formations enhance durability.
- Accelerates cement hydration leading to strength development increase.
- Concrete waterproofing resistant to hydrostatic pressures up to 200 psi.
- Reduces pore-water/bleed-water in placed concrete.
- Meets ASTM C494, Type S requirement / AASHTO M194.

PHYSICAL PROPERTIES

Color	RED
Odor	None
Density	9.0–9.4 lbs/gal
pH	5.8–8.0
Solids Content	14–16%
Viscosity	500 Centipoise (CPS) min.

TESTING

STANDARD TEST METHOD

STANDARD TEST METHOD	CONBLOCK CDA RED RESULTS VS. REFERENCE
CRD-C48 Permeability of Concrete	96% reduction, 21 days
ASTM C39 Compressive Strength of Concrete	25% increase after 1 day; >10% increase after 90 days
ASTM C666 Freeze-Thaw Durability	Relative Durability Factor of 99% in 300 cycles
ASTM C1585 Measurement of Rate of Absorption of Water by Hydraulic Cement Concretes	36% reduction after 90 days
ASTM C157 Length Change of Hardened Hydraulic-Cement Mortar and Concrete	70% reduction after 56 days
ASTM C1260 Determining the Potential Alkali-Silica Reactivity of Aggregates	18% reduction after 28 days

DO NOT SUBJECT CONBLOCK CDA RED TO FREEZING TEMPERATURES BEFORE USE.

DIRECTIONS FOR USE

- High Range Water Reducer must be PCE (polycarboxylate ether) based.
- ConBlock CDA Red may affect slump, spread, and air. Run a trial mix prior to production.
- Stir ConBlock CDA Red well before use.
- **Add ConBlock CDA Red at the end of the batch cycle, immediately - within 30 seconds - after the last ingredient.** Adding trim water is not prohibited at this time.
- Dosage: **63 fluid ounces per CWT** (hundred pounds of total cementitious materials).
- For every gallon of ConBlock CDA Red, the mix water content should be reduced by 0.85 gallons to maintain the design water-cementitious materials ratio.
- Reference installation instructions for more information.

P A T E N T P E N D I N G

LIMITED WARRANTY

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