

Liquid Admixture for Densifying and Waterproofing Concrete



Certified to NSF/ANSI/CAN 61

PRODUCT APPLICATIONS

ConBlock CDA Red is designed to densify and waterproof 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 (non-potable water).

PRODUCT DESCRIPTION

ConBlock CDA is a liquid Permeability Reducing Agent (PRA) that densifies 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 densification properties allow it to be suitable for use in Hydrostatic (PRAH) and non-hydrostatic (PRAN) installations.

FEATURES AND BENEFITS

- Easy to use liquid admixture
- Densifies concrete and enhances 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: 9.10 - 9.28lbs/gal.
 pH: 5.7 - 8.7
 Solids (%): 14.0 - 16.0
 Viscosity: 500 Centipoise (CPS) Min.

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

TESTING

STANDARD TEST METHOD	CONBLOCK CDA RED RESULTS VS. REFERENCE
CRD-C48 Permeability of Concrete	Coefficient of permeability rating (K)= 1.3×10^{-13} (96% reduction), 21 days
ASTM C39 Compressive Strength of Concrete	25% increase after 1 day >10 % increase after 28 days
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	Dry shrinkage of 0.013% (130 microstrain) after 56 days; 70% less than reference
ASTM C1567 Determining the Potential Alkali-Silica Reactivity of Cementitious Materials and Aggregate	10% reduction after 28 days
ASTM C1260 Determining the Potential Alkali-Silica Reactivity of Aggregates	18% reduction after 28 days
ASTM C1760 Bulk Electrical Conductivity of Hardened Concrete	15% reduction at 1000 hz
BS EN 12390-8 Depth of Water Penetration under Pressure	36% reduction after 90 days

DIRECTIONS FOR USE

- High Range Water Reducer must be PCE (polycarboxylate ether) based.
- Increase the slump flow by 1 ½"-2" more than the desired flow before adding ConBlock CDA Red.
- 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 ratio.

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

LIMITED WARRANTY

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VERSION: 5-APR-2024



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