

## 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)=  $1.3 \times 10^{-13}$  (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: **110 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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CONCRETE SEALANTS, INC. | 9325 STATE ROUTE 201, TIPP CITY, OH 45371, USA | [WWW.CONSEAL.COM](http://WWW.CONSEAL.COM)

USA | CANADA +1.800.332.7325 | INTERNATIONAL +1.937.845.8776

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