



*Don't Just Seal It, ConSeal It!*

## Liquid Waterproofing Admixture for Concrete

### Liquid Admixture for Densifying and Waterproofing Concrete

#### Product Applications

ConBlock CDA 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 pipe, manholes, and water containment tanks.

#### Product Description

ConBlock CDA is a liquid Permeability Reducing Admixture (PRA) that densifies concrete. When added to Portland cement concrete, early strength gain allows for a faster set and the strength is still greater than the reference concrete at 7 and 28 days. The molecules are fast-reacting, allowing performance to be realized immediately. Due to the tightening of the void space, concrete bleeding is reduced, allowing finish operations to occur more quickly. In testing **for over 28 days at 200 psi (CRD-C 48-92), water did not pass through the concrete.** In addition to densification, ConBlock CDA also adds water repellency by creating a molecular hydrophobicity at the surface, making ConBlock CDA suitable for use in Hydrostatic (PRAH) and non-hydrostatic (PRAN) installations.

#### Features and Benefits

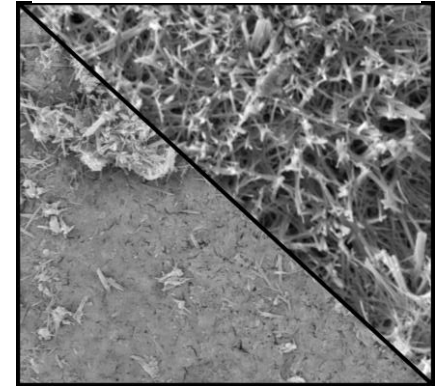
- Concrete waterproofing resistant to hydrostatic pressures up to 200 psi
- Easy to use liquid admixture (available clear or colored)
- Densifies concrete and enhances durability
- Accelerates cement hydration leading to an increase in early strength development
- Reduces pore-water / bleed-water in placed concrete
- ASR (Alkali-Silica Reactivity) expansion is below 0.100 in 28 days when added to a mix containing 20% Type F Fly Ash
- Improved resistance to chemical attack, including sulfuric acid

#### Physical Properties

Color: Milky white  
 Odor: None  
 Density: 9.3 lbs./gal.  
 pH: 6.5-7.5  
 Solids: >20%

**DO NOT SUBJECT CONBLOCK CDA TO FREEZING TEMPERATURES**

ConBlock CDA Treated Concrete



Untreated Reference Concrete

#### Testing

##### Standard Test Method

CRD-C-48-92 Permeability of Concrete

ASTM C39 Compressive Strength of Cylindrical Concrete Specimens

ASTM C78 Flexural Strength of Concrete

ASTM C1585 Measurement of Rate of Absorption of Water by Hydraulic Cement Concretes

ASTM C1567 Determining the Potential Alkali-Silica Reactivity of Combination of Cementitious Materials and Aggregate (Accelerated Mortar Bar Method)

ASTM C157 Length Change of Hardened Hydraulic Cement Mortar and Concrete

ASTM C494 Chemical Admixtures for Concrete

##### ConBlock CDA Results

Coefficient of permeability rating (K) = 0.289<sup>-11</sup>

(32% reduction compared to the reference concrete)

ConBlock CDA increased 1-day, 7-day and 28-day strengths by more than 10%

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ConBlock CDA reduced the rate of water wicking in concrete

ConBlock CDA reduced expansion at 14 days and 28 days when used in concrete containing fly ash

ConBlock CDA exhibits dry shrinkage of 0.047% (470 microstrain) at 28 days

ConBlock CDA meets the requirements of ASTM C494 Type S

#### Directions for Use

- High Range Water Reducer must be a PCE Based (polycarboxylate ether)
- Increase the slump flow by 2" – 3" more than the desired flow before adding ConBlock CDA
- Add ConBlock CDA at the end of the batch cycle. Adding trim water is not prohibited at this time.
- Dosage: 21 - 40 fluid ounces per CWT (hundred pounds of total cementitious materials)

#### Limited Warranty

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

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