

SEAL OF SECURITY, BOND OF TRUST.

ConBlock[™] CDA Red

LIQUID AMORPHOUS CRYSTAL WATERPROOFING ADMIXTURE

Liquid Admixture for Densifying and Waterproofing Concrete



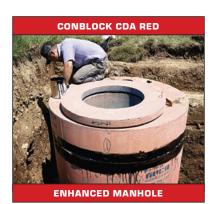
ConBlock CDA Red is designed to densify and waterproof concrete structures, such as: bridge and highway structures, tunnels and trenches, building foundations, garage and parking structures, below-grade precast structures, wastewater treatment plants, sewer pipes, manholes and water containment tanks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

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

CRD-C48 Permeability of Concrete

ASTM C39 Compressive Strength of Concrete

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

ASTM C157 Length Change of Hardened Hydraulic-Cement Mortar and Concrete

ASTM C1567 Determining the Potential Alkali-Silica Reactivity of Cementitious Materials and Aggregate

ASTM C1260 Determining the Potential Alkali-Silica Reactivity of Aggregates

ASTM C1760 Bulk Electrical Conductivity of Hardened Concrete

BS EN 12390-8 Depth of Water Penetration under Pressure

CONBLOCK CDA RED RESULTS VS. REFERENCE

Coefficient of permeability rating (K)= 1.3 x 10-13 (96% reduction), 21 days

25% increase after 1 day >10 % increase after 28 days

36% reduction after 90 days

Dry shrinkage of 0.013% (130 microstrain) after 56 days; 70% less than reference

10% reduction after 28 days

18% reduction after 28 days

15% reduction at 1000 hz

36% reduction after 90 days

DIRECTIONS FOR USE

- High Range Water Reducer must be PCE (polycarboxylate ether) based.
- Increase the slump flow by 1 1/2"-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.

PATENT PENDING

LIMITED WARRANTY

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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 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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