

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 pipes, manholes and water containment tanks (non-potable water).

PRODUCT DESCRIPTION

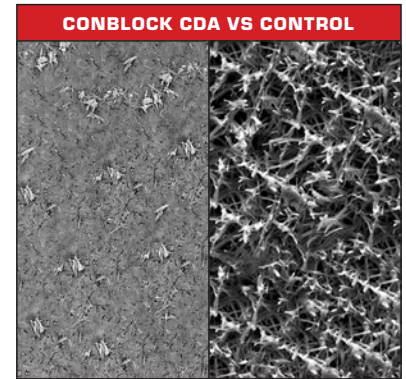
ConBlock CDA is a liquid Permeability Reducing Agent (PRA) that densifies concrete. The molecules are fast-reacting, allowing performance to be realized immediately. Due to the tightening of the void space, concrete bleeding is reduced, allowing finishing operations to occur more quickly. **After 21 days at 200 psi (CRD-C48) water did not pass through the concrete.** ConBlock CDA'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



Certified to NSF/ANSI/CAN 61



PHYSICAL PROPERTIES

Color: Milky White
 Odor: None
 Density: 9.33 - 9.50 lbs/gal.
 pH: 6.5 - 7.5
 Solids (%): 21.0 - 24.0
 Viscosity: < 50 Centipoise (CPS)

DO NOT SUBJECT CONBLOCK CDA TO FREEZING TEMPERATURES BEFORE USE.

TESTING

STANDARD TEST METHOD

CONBLOCK CDA RESULTS VS. REFERENCE

CRD-C48 Permeability of Concrete
 ASTM C39 Compressive Strength of Concrete
 ASTM C666 Freeze-Thaw Durability
 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

Coefficient of permeability rating (K)= 1.2×10^{-13} (96% reduction), 21 days
 >10% increase after 3 days; >10% increase after 28 days
 Passed 300 cycles
 16% reduction after 90 days
 Dry shrinkage of 0.033% (330 microstrain) after 56 days; 23% less than reference
 21% reduction after 28 days
 20% reduction after 28 days
 13% conductivity reduction at 1000 hz
 32% 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
- Stir ConBlock CDA well before use
- **Add ConBlock CDA 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: **21 fluid ounces per CWT** (hundred pounds of total cementitious materials)
- For every gallon of ConBlock CDA, the mix water content should be reduced by 0.75 gallons to maintain the design water-cementitious ratio.

LIMITED WARRANTY

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