



CONSEAL™
CONCRETE SEALANTS INC.

ConBlock™ CDA Red

LIQUID AMORPHOUS CRYSTAL
WATERPROOFING ADMIXTURE

Don't Just Seal It. ConSeal It!

Liquid Admixture for Densifying and Waterproofing Concrete

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



PHYSICAL PROPERTIES

Color: RED
 Odor: None
 Density: 9.10 - 9.28lbs/gal.
 pH: 5.7 - 6.7
 Solids (%): 14.0 - 16.0
 Viscosity: 300-400 Centipoise (CPS)

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

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

Coefficient of permeability rating (K)= 1.3×10^{-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 should 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. Adding trim water is not prohibited at this time.
- Dosage: **63-120 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.

LIMITED WARRANTY

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