



CONSEAL™
CONCRETE SEALANTS INC.

Don't Just Seal It. ConSeal It!

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

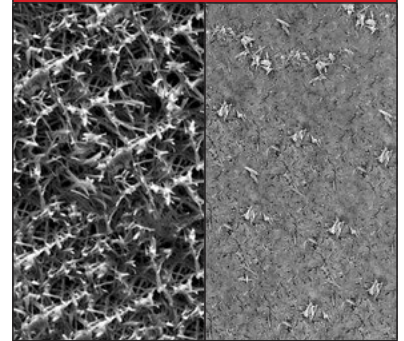
ConBlock™ CDA

LIQUID AMORPHOUS CRYSTAL
WATERPROOFING ADMIXTURE



Certified to
NSF/ANSI/CAN 61

CONBLOCK CDA VS CONTROL



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

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

CONBLOCK CDA RESULTS VS. REFERENCE

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: **35 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

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 manufacturers 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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