SEAL OF SECURITY

ConSeal™

CONCRETE SEALANTS INC.

BOND OF TRUST

Don't Just Seal It. ConSeal It!

ConBlock™ CDA

LIQUID AMORPHOUS CRYSTAL WATERPROOFING ADMIXTURE

Liquid Admixture for Densifying and Waterproofing Concrete

NSF Certified to NSF/ANSI/CAN 61

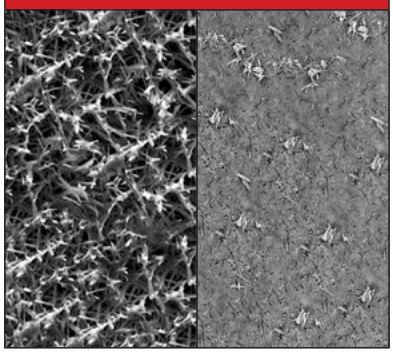
PRODUCT APPLICATIONS

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.

CONBLOCK CDA VS CONTROL



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:	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	**Coefficient of permeability rating (K)= 1.2 x 10-13 (96% reduction), 21 days**
ASTM C39 Compressive Strength of Concrete	**>10% increase after 3 days; >10% increase after 28 days**
ASTM C666 Freeze-Thaw Durability	**Passed 300 cycles**
ASTM C1585 Measurement of Rate of Absorption of Water by Hydraulic Cement Concretes	**16% reduction after 90 days**
ASTM C157 Length Change of Hardened Hydraulic-Cement Mortar and Concrete	**Dry shrinkage of 0.033% (330 microstrain) after 56 days; 23% less than reference**
ASTM C1567 Determining the Potential Alkali-Silica Reactivity of Cementitious Materials and Aggregate	**21% reduction after 28 days**
ASTM C1260 Determining the Potential Alkali-Silica Reactivity of Aggregates	**20% reduction after 28 days**
ASTM C1760 Bulk Electrical Conductivity of Hardened Concrete	**13% conductivity reduction at 1000 hz**
BS EN 12390-8 Depth of Water Penetration under Pressure	**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.

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VERSION: 8-APR-2022

ISO 9001 SINCE 1997

CONCRETE SEALANTS, INC.

ISO 9001:2015 REGISTERED