



CSXTREME

CONCRETE SOLUTIONS FOR XTERIOR USE
"An Affiliate of Concrete Moisture Solutions, Inc."

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 **CONCRETE MOISTURE SOLUTIONS, INC.**
A CONCRETE ENHANCEMENT TECHNOLOGY COMPANY

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Product Data Sheet (information contained herein is as accurate as possible, however, the information posted on our website takes precedence to this publication).

Manufacturer:

Concrete Moisture Solutions, Inc./Barrier One, Inc.
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Product Description:

CSXtreme Admixture, a porosity inhibiting admixture (PIA) developed by Concrete Moisture Solutions, chemical and concrete experts to enable project teams to utilize the enhanced properties of Barrier One for exterior applications. As an admixture, it is integral to the concrete, *not surface applied*, and its use will render the concrete impermeable, eliminating the need for surface sealers and coatings. CSXtreme provides corrosion, shrink and ASR inhibiting properties along with increased strength in an exterior formulation.

CSXtreme Admixture is a very unique, VOC free formulation specifically designed to reduce overall concrete permeability. It combines with pre-existing elements inside the mix and initiates a natural chemical reaction that disrupts the integral concrete pore structure and capillary system; which is the route of moisture and chemical intrusion in exterior concrete. This chemical reaction creates abundant C-S-H (calcium silicate hydrate) which forms a permanent barrier (capillary break) that is insoluble and irremovable.

Advantages:

By closing the capillary system CSXtreme Admixture facilitates suspended hydrating moisture that is irremovable yet available for sustained cement particle hydration. Therefore, the use of CSXtreme Admixture results in concrete that is denser, stronger, with increased abrasion resistance, reduced slab warping, and significantly reduced shrinkage and permeability.

Technical Data:

Appearance: Colorless
Odor: None
Flammability: None
Specific Gravity: 1.2204
Ph: 11.3
Solvent: Water
Weight: 10.4 lbs/gal (net)
Freeze Temp: 32°F
Storage Temp: Above 36°F
Shelf Life: One Year
Acid Resistance: Excellent
Hazardous Vapors: None
Toxicity: None
Installation: All concrete
Capillary Break: Calcium Silicate Hydrate

Minimum slab thickness for use with CSXtreme Admixture is three (3") inches.

Dispensing:

- CSXTREME Admixture must review ALL mix designs;
- CSXTREME Admixture is compatible with both normal and lightweight mix designs
- Dosage rate is 14oz per 100 lbs. of total cementitious materials; dose within plus or minus 3%
- CSXTREME Admix is used in a one-for-one replacement of mix water
- Standard water-cementitious material ratio (w/cm) is 0.31 to 0.52; below or above may require adjustment by CSXTREME Admixture
- CSXTREME Admix should be added separately from other admixes at the tail-end of the load
- For accuracy and reporting, CSXTREME Admix recommends dosing at the batch plant; however, dosing onsite is of course acceptable; if this is done, let drum rotate for 7 minutes before discharge

Concrete Performance:

- CSXTREME Admix is not an accelerator or a retarder
- It has little to no impact on set times per ASTM C494 testing
- It has minimal impact on slump (not more than 0.5" loss)
- May be used with all other admixtures provided that such admixtures are added separately and the combination has no deleterious effect on the concrete. with the exception of shrink reducing admixes (SRA) and crystalline growth admixes.
- Use of water reducing admixes is recommended to achieve slumps greater than 4"
- With CSXTREME Admix there is reduced bleed water, creating a richer, creamier, undiluted paste and therefore facilitating finishing operations

Curing:

CSXTREME Admixture concurs with the recommendation of ACI 302.2R-06 guidelines for curing. Curing compounds have no deleterious effects on the performance of CSXTREME Admixture.

*Warranty:

CSXTREME Admixture is formulated to eliminate the permeability of concrete. CSXtreme (CSXtreme) warrants that CSXtreme products are free from manufacturing defects and comply with the specifications given in their respective technical data sheet. Because conditions of use, such as site conditions, surface preparations, workmanship, concrete ingredients, weather, structural issues and other factors are beyond the control of CSXtreme, no warranty can be given as to the results of use. Purchaser agrees to seek the advice of qualified professionals and to determine for themselves the suitability of the products for their intended purpose and assumes all risks. Purchaser's sole remedy is limited to replacement of any product proven defective or at CSXtreme's option refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF CSXTREME. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CSXTREME SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of CSXtreme has the authority to make any representations or provision except as stated herein. CSXtreme reserves the right to change the properties of its products without notice.

Technical Services:

For technical assistance, contact your Barrier One Regional Manager. Or contact us directly at - P: 877.224.5850; F: 866.594.3490
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