



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

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

CREATE CONCRETE THAT WITHSTANDS WEATHER, MOISTURE & HARSH ENVIRONMENTS WITH CSXTREME ADMIXTURE

CSXtreme is a scientifically proven porosity inhibiting admixture (PIA) designed to enable project teams to dramatically improve the qualities of concrete in exterior applications while meeting aggressive build schedules and staying on budget. With added ingredients that withstand extreme temperature fluctuations as well as chemical and weather exposure, *CSXtreme is designed to maximize performance in outdoor & harsh indoor environments.*

CSXTREME

redefines **OUTDOOR**
CONCRETE
performance.

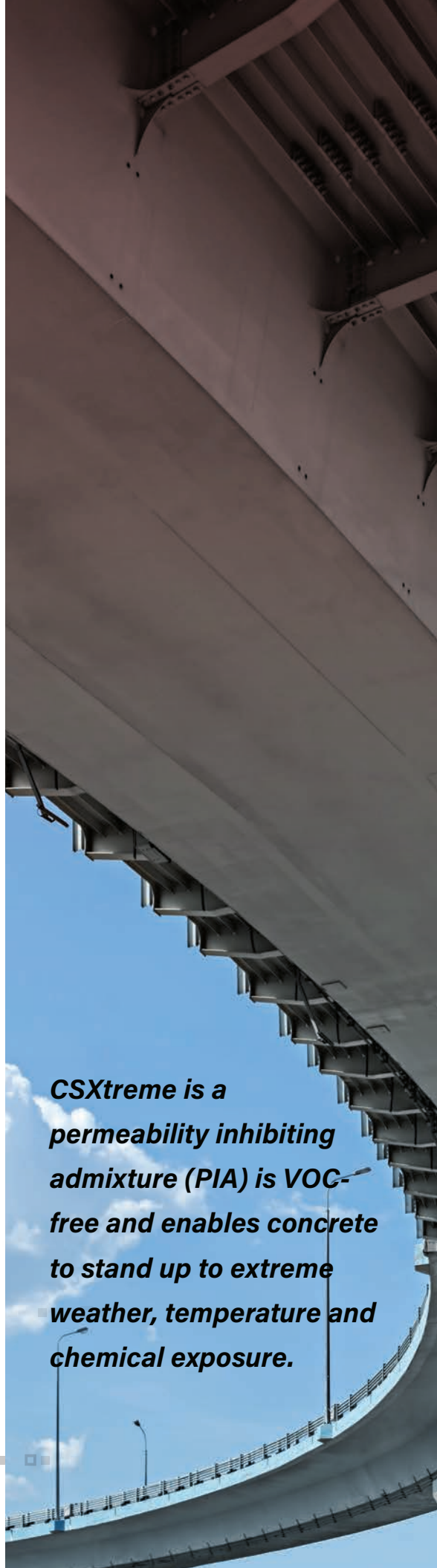
Advantages:

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. CSXtreme is designed for outdoor and harsh indoor environments and has added ingredients that allow concrete to stand up to chemical and weather exposure and withstand dramatic temperature fluctuations.

Technical Data:

Appearance: Colorless	Freeze temp: 32°F
Odor: None	Storage temp: Above 36°F
Toxicity: None	Solvent: Water
Flammability: None	Acid resistance: Excellent
pH: 11.3	Hazardous vapors: None
Specific gravity: 1.2204	Installation: All concrete
Shelf life: One year	Capillary Break: Calcium silicate hydrate
Weight: 10.4 lbs/gal (net)	

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



CSXtreme is a permeability inhibiting admixture (PIA) is VOC-free and enables concrete to stand up to extreme weather, temperature and chemical exposure.



Dispensing:

- Concrete Moisture Solutions must review ALL mix designs.
- CS Xtreme 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%.
- CS Xtreme admixture is used in a one-for-one replacement of mix water.
- Standard water-cementitious material ratio (w/cm) is 0.31 to 0.52.
NOTE: Ratios below or above the standard amount may require adjustment by CS Xtreme.
- For accuracy and reporting, Concrete Moisture Solutions recommends dosing at the batch plant; however, dosing onsite is of course acceptable. For onsite dosing, let the drum rotate for 7 minutes before discharge.
- CS Xtreme admixture should be added separately from other admixes at the tail-end of the load.

Concrete Performance:

- CS Xtreme admixture 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.
Exception: Shrink reducing admixtures (SRA) and crystalline growth admixtures should not be used in combination with CS Xtreme.
- Use of water reducing admixtures is recommended to achieve slumps greater than 4".
- With CS Xtreme admixture there is reduced bleed water, creating a richer, creamier, undiluted paste that facilitates finishing operations.

Curing:

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

42%

Reduction in Corrosion
C-1202 Testing RCPT
(Rapid Chloride Ion Test)

80%

Reduction in Corrosion
ASTM C-1543 Testing
(ponding)

75%

Average Reduction in
Alkali Silica Reaction
ASTM C-1260
(six aggregates tested)

0%

Scaling per
ASTM C-672
(deicing)