

## Product Data Sheet

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

**CPS Admixture is a complex formula sodium silicate based MVRA commodity product, tested and distributed solely by Concrete Moisture Solutions, Inc.**

### **Product Description:**

CPS ADMIX is a non-toxic elevated performance liquid admixture; specifically formulated to generate additional hydration products within your mix design while efficiently creating a capillary / integral block within the concrete to shut down moisture vapor movement to within "non-critical levels". This chemical reaction forms an insoluble, irremovable and permanent capillary break. VOC Free; CPS ADMIX does not promote nor contribute to corrosion of embedded reinforcement.

### **Advantages:**

By closing the capillary system, CPS Admixture facilitates suspended hydrating moisture that is irremovable yet available for sustained cement particle hydration. Therefore, the use of CPS 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
Toxicity: None	Flammability: None
Ph: 11.3	Specific gravity: 1.26
Shelf Life: One Year	Weight: 10.3 lbs/gal (net)
Freeze Temp: 32°F	Storage Temp: above 36°F
Solvent: Water	Acid Resistance: Excellent
Hazardous Vapors: None	Installation: All concrete
Capillary Break: C-S-H	NSF / ANSI 61 Compliant

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

### **Dispensing:**

- CPS Admixture must review ALL mix designs;
- CPS Admixture is compatible with both normal and lightweight mix designs
- Dosage rate is 12oz per 100 lbs. of total cementitious materials; dose within plus or minus 3%
- CPS Admix is used in a one-for-one replacement of mix water
- Standard water-cementitious material ratio (w/cm) is 0.41 to 0.53; below or above may require adjustment by CPS Admixture\*
- **\*Additional dosage may be required based on approved mix**
- For accuracy and reporting, CPS 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

- CPS Admix should be added separately from other admixes at the tail-end of the load.

### **Concrete Performance:**

- CPS 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 CPS Admix there is reduced bleed water, creating a richer, creamier, undiluted paste and therefore facilitating finishing operations

### **Curing:**

For slabs to receive moisture sensitive flooring CPS Admixture concurs with the recommendation of ACI 302.2R-06, p. 38; "such slabs should be cured by being covered with waterproof paper, plastic sheets, or a combination of the two for 3 to 7 days". However, a CPS Admixture dosed slab requires only 24 hours of curing by this method (although leaving the plastic/waterproof paper down longer is acceptable). Curing compounds have no deleterious effects on the performance of CPS Admixture.

### **Additional Requirements:**

For all slabs on ground, the use of an ASTM E 1745 vapor retarder, installed following ASTM E 1643, ACI 302.2R and ASTM F 710 guidelines is required; Vapor retarder is not required for suspended concrete slabs.

### **Warranty:**

CPS Admixture is formulated to eliminate the route of moisture vapor emission through concrete. Our admixture warranty is available through the distributor website: [www.barrierone.com](http://www.barrierone.com)...Products and Services "By making any claim under this warranty, the parties agree Florida law applies to any warranty claim or dispute concerning any warranty claim and venue for any warranty claim or dispute or litigation regarding any warranty claim or any other dispute between the parties shall be in Lake County, Florida."

### **Technical Services:**

For technical assistance, contact your CPS Admixture Regional Manager.

Or contact us directly at - P: 877.224.5850; F: 866.594.3490

Email: [info@barrierone.com](mailto:info@barrierone.com)

web: [www.barrierone.com](http://www.barrierone.com)