



# CHEM-CRETE SOFIX<sup>®</sup> CCC 700

Hydrophilic and Hygroscopic Moisture and Vapor Blocker

## PRODUCT DESCRIPTION

**Chem-Crete Sofix CCC700** is a unique one of a kind water-based crystallization product specifically designed to permanently block moisture and vapor transmission in concrete or masonry structures up to 16 lb. /1000 ft /24 Hours. Application of the **Chem-Crete Sofix CCC700** system blocks moisture and vapor movement through concrete and masonry substrates within 24 hours. The **Chem-Crete Sofix CCC700** can be easily applied by spraying or rolling. **Chem-Crete Sofix CCC700** is designed to be applied to concrete substrates that are 7 days or older. The **Chem-Crete Sofix CCC700** is formulated to enhance deep penetration into the concrete substrate through capillary action. The product components migrate deep into the concrete substrate to form a hygroscopic and hydrophilic crystalline material which permanently blocks the concrete and masonry substrate pores. Even under the influence of constant hydrostatic pressure, the crystallization continues to fill and block the migration of moisture through the concrete substrate. The crystallization activity of the **Sofix CCC700** system is continuous while moisture is present. The product becomes inactive during dry conditions and is fully reactivated when moisture or moisture vapor are present. The unique "reactivation" is the key in providing permanent waterproofing protection for any concrete or masonry substrate. **Chem-Crete Sofix CCC700** is an odorless, colorless, clear liquid with very low viscosity that allows it to penetrate deeply into a concrete substrate or other masonry products. The product protects preserves and waterproofs without any surface film formation or color change.



## PRODUCT FEATURES

- High Moisture, Vapor blocking performance.

- Single component
  - Easy Application
  - Penetrates concrete and seals capillary tracts and hairline cracks.
  - Multiple functions: blocking of moisture and increases the adhesion of coatings, and paints.
  - Non-toxic
  - Cost effective
  - Resist hydrostatic pressure
  - Internal and External application
- Treatable Materials: Concrete, concrete block, mortar, plaster, stucco, terrazzo, exposed aggregate and any sand, aggregate cement combination.

## FIELDS OF APPLICATION

- Concrete Floors.
- Foundations and Slabs.
- Reservoirs.
- Industrial Plants.
- Swimming Pools.
- Subway Tunnels.
- Elevator Pits.
- Walls and flooring in parking garages.

## PACKAGING

Product	Packaging
<b>Chem-Crete Sofix CCC700</b>	5 gal pail and 55 gal drum ( 19 L pail and 208 L drum)

## TECHNICAL DATA

Specific Gravity	1.09
Freeze Temperature	25°F (-4 °C)
Boiling Point	221 °F (105 °C)
Freeze Harm	Complete
For Cleaning	Water
Color	Clear
Odor	None
Toxicity	None
Flammability	None
Fumes During Treatment	None
Environmental Hazards	None
Thinners Required	None
Number Of Coats Required	Two coats
Drying Time	2-3 hours

At 77°F (25 °C)	
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### **Applicable Standards:**

Meets or exceeds:

- ☐ ASTM C-666 Freeze thaw testing
- ☐ NCHP#244 "Soak Test" Rev.
- ☐ ASTM D3359: 28% increase in epoxy adhesion or surface coating
- ☐ Hardening Test ASTM C-42: 40% increase in compressive strength at 14 days over untreated samples. 35% increase at 28 days over untreated samples.
- ☐ Weathering Test ASTM G-23: Ultraviolet light and water spray exposure had no adverse effect on **Chem-Crete Sofix CCC700** treated samples.
- ☐ ASTM C-309 Curing type 1, class A
- ☐ Curing temperatures ATEC 25-01831

### APPLICATION DATA

- ☐ Methods of Application: Spray, roll or brush.
- ☐ Tools Needed: Spray equipment, roller, brush, bristle broom or squeegee.
- ☐ Surface Preparation: Surface must be clean, and free of paint, sealer, oil, adhesive, curing compound, form release agent and/or anything that will not allow **Chem-Crete Sofix CCC700** to penetrate the substrate. Areas which require cleaning must be cleaned by scrubbing, pressure washing or other methods to remove any surface dust, dirt or other contaminants. **Chem-Crete Sofix CCC700** may be applied to damp surfaces as long as no standing water or puddles are present. Heavy contaminated areas must be cleaned using **Chem-Crete CONCLEAN CCC 060** biodegradable concrete cleaner and a pressure washer to help remove deeply penetrated areas.

1. Apply the first coat of Chem-Crete Sofix CCC700 at a rate of 200 ft<sup>2</sup> per gal (5 m<sup>2</sup> /L). The concrete or masonry substrate must remain wet with **Chem-Crete Sofix CCC700** for at least 30 minutes.
2. After the concrete or masonry substrate is dry, normally 1 to 2 hours at 70F (21.1 C), apply the second coat of **Chem-Crete Sofix CCC700** at a rate of 200 ft<sup>2</sup> per gal (5m<sup>2</sup>/L) making sure that substrate is wet for 30 minutes.
3. Allow the surface to completely dry for at least 24 hours. During the drying stage, good circulation of air is needed and the room temperature should be kept close to operating conditions.
4. Once the moisture contents drops to a reading within the required limits specified by the end user or the floor covering manufacturer, the substrate must be cleaned to remove any surface crystals or efflorescence materials that might be pushed to the surface as a result of

the treatment. Cleaning can be done by any method you may find suitable such as mopping, flushing with water, etc.

### **Coverage:**

Two coats, approximately 200 ft<sup>2</sup> per gal (5 m<sup>2</sup> per liter) of **Chem-Crete Sofix CCC700**. Coverage depends on the temperature and porosity of the concrete.

### **Limitations:**

Do not apply **Chem-Crete Sofix CCC700** in the following cases:

- ☐ When temperature falls below 5°C.
- ☐ To areas previously treated with curing or sealing agents unless these coating have been removed by chemical or mechanical means.
- ☐ Do not use or allow it to come into contact with aluminum or glass. Crystallization will occur on surface. **If contact occurs, immediately wash off with water.**
- ☐ Do not use on glaze tiles or glazed bricks. Crystallization will occur on surface. **If contact occurs, immediately wash off with water.**

### CLEANING

Clean all equipment, tools with fresh clean water immediately after use.

### STORAGE

Two year shelf life when stored in cool, dry place in unopened drums.  
Always agitate or stir the bucket or drum before using.

### SAFETY PRECAUTIONS

As with all construction chemical products, adequate precautions and care must be taken during usage and storage. Avoid direct contact with foodstuff, eyes, skin, and mouth. Any direct contact with skin, eyes, etc. should be washed thoroughly with clean running water and soap.

**Always wear protective goggles and gloves. In case of eye contact, flush for 15 minutes with clean water. Keep out of reach of children.**

### TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

### WARRANTY

**LIMITED WARRANTY:** International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

**DISCLAIMER:** The information contained herein is included for illustrative purposes only and, to the best of our

knowledge, is accurate and reliable. International chem-crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in a particular

circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. MN/022006.

### **Manufactured By:**



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