



# CHEM-CRETE STAINIX®

Concrete Stain & Waterproofing Sealer  
Technical Data Sheet (TDS)

## PRODUCT DESCRIPTION

**Chem-Crete StainiX®** is a unique, water-based, two-component stain and waterproofing sealer. It is available in ten decorative colors, which enhance the appearance of concrete surfaces. StainiX is packaged in easy to use kits. The low viscosity allows the Chem-Crete StainiX to penetrate into the concrete surface. Simply mix the stain (Part A) to the waterproofing sealer (Part B), and it is ready to apply in only one coat.

**Chem-Crete StainiX®** contains patented crystallization technology. The crystals (hydrophilic and hygroscopic) react to moisture inside the concrete and grow to fill the capillaries, voids and pores that are prone to contain moisture, effectively blocking moisture underneath and at the surface. When moisture is no longer present, the hygroscopic crystals become dormant while the hydrophilic crystals shrink to allow the concrete to breathe naturally. This process repeats itself repeatedly over time without affecting the stain's natural color.

This UV stable product does not require a top coat. If gloss or satin sheen is preferred, apply Chem-Seal 30 WB for gloss or Chem-Seal WB 14 for a satin finish. Chem-Seal clear sealers are water-based acrylic which is ideal for enhancing the color of the stained surface.



## PRODUCT FEATURES

- Easy application by pump up or airless sprayer
- One coat coverage
- Surface penetration

- Internal moisture blocking
- Non-film forming
- UV stable
- Low cost

## ADVANTAGES AND BENEFITS

- Long lasting waterproofing and moisture blocking from positive and negative sides
- Resistance to aggressive chemicals such as acids, caustics, fuels and oil
- Protects reinforcing steel against corrosion
- Increases joint sealant adhesion by preventing moisture intrusion through the joint material bond line
- Prevents Alkali Silica Reactions (ASR) and eliminates silicate dusting
- Prevents penetration of chloride ions from de-icing salts
- Environmentally safe (non-toxic, odorless)

## FIELD OF APPLICATION

Chem-Crete StainiX can be used on any concrete or cementitious item or structure (e.g. buildings, bridges, walls, floors, decks, driveways, parking lots, seating areas, water features, blocks, barriers, etc.).

## APPLICATION

**Surface Preparation:** Surface must be clean, and free of contaminants, such as dirt, stains, paint, prior sealers, and oils, adhesives, curing compounds, form release agents or any other material that may impede the Chem-Crete StainiX from easily penetrating into the concrete surface. Clean areas by pressure washing or other abrasive process. Any agents used to clean the surface must also be removed prior to application. Heavily contaminated areas can be cleaned using Chem-Crete CONCLEAN CCC 060 (biodegradable).

**Absorption Requirement:** The application surface must be able to absorb water for Chem-Crete StainiX to work properly. Test for required absorption capability by placing a droplet of water at multiple locations on the surface area. After a few minutes, if the droplet quickly runs off or stays beaded this may indicate the need for additional surface preparation.

### Coverage:

Apply Chem-Crete StainiX in one coat only at 150-200 ft<sup>2</sup> per gallon. Coverage depends on the temperature, porosity of the concrete, and the concrete's ability to absorb product. Once dry, do not re-apply.

Prior to application, test color on a sample of the surface. For best results, apply with pump sprayer or low pressure airless sprayer. Spray until surface no longer absorbs product. Avoid creating standing puddles. Use a broom or squeegee to spread excess product until absorption is complete.

### Mixing:

Simply mix together the stain (part A) to the moisture blocker (part B). Mix thoroughly. After mixing, product is ready to apply.

Mix only the amount you require for the days application. Left over material should be discarded properly.

### Cautions and Limitations:

- Do not use on areas previously treated with curing agents or sealers, unless they have been removed by chemical or mechanical means
- Do not use if surface does not easily absorb water
- Do not use if air or surface temperature fall below 32°F, and if the product was allowed to freeze
- Cover any nearby surface not intended for treatment to prevent overspray

### KIT PACKAGING

Kit Packaging	Stain (Part A)	Waterproofing Sealer (Part B)
1 gallon kit 3.8 liter	16 fl. oz. (.47 liters)	112 fl. oz. (3.31 liters)
5 gallon kit 18.93 liter	80 fl. oz. (2.37 liters)	4.375 gal. (16.56 liters)

### CLEANING

Clean all equipment and tools with clean water immediately after use.

### STORAGE

Store unopened product in a cool, dry place for up to one year. Avoid heat or direct sun light. Do not allow product to freeze.

### 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.

Always wear protective goggles and gloves. In case of eye contact, flush for 15 minutes with warm water. In case of ingestion, seek immediate medical attention. Keep out of reach of children.

### TECHNICAL DATA

Specific Gravity	1.1 Avg.
Freeze Temperature	22°F (-6 °C)
Boiling Point	214 °F (101 °C)
For Cleaning	Water
Odor	None
Toxicity	None
Flammability	None
Fumes During Treatment	None
Environmental Hazards	None
Thinners Required	None
V.O.C. (gms/liter)	0.0
Number Of Coats Required	One (1) Coat
Drying Time @ 77°F (25 °C)	2-3 hours

### Applicable Standards:

Description	Test Method	Results
Toxicity	48 Hour Acute Toxicity Test	Non-toxic to flora and fauna V.O.C. Content 0
Chloride Ion Penetration	ASTM C1202 /AASHTO T277	< 2000 coulombs
Abrasion Resistance	ASTM C 944	4.2 grams / m <sup>2</sup>
Water Vapor Trans.	ASTM E 96	2.0 Perms
Adhesion	ASTM C 1583	400 PSI
Scaling Resistance	ASTM 672	Not to exceed 0.64
Static Slip Resistance	ASTM F 609	No Effect
Skid Resistance	ASTM E 303	No Effect
Freeze/Thaw 300 Cycles	ASTM C 666	Mass change not to exceed 0.09%
Freeze/Thaw 300 Cycles	ASTM C 666	Length Change not to exceed -0.017%
Freeze/Thaw 300 Cycles	ASTM C666	RDM 97%
Water Absorption	ASTM D 6489	1.5% by wt./7 Days

### TECHNICAL ASSISTANCE

Please contact International Chem-Crete for technical assistance.

## DISCLAIMER

**DISCLAIMER:** The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. Chem-Crete is not, under any circumstances, liable in connection with the use of information provided. As Chem-Crete has no control over the application of its products, it is recommended that products be tested to determine suitability for specific applications. Color of application may vary from electronic or printed materials provided by the manufacturer.

## WARRANTY

**LIMITED WARRANTY:** Chem-Crete 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. Chem-Crete solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Chem-Crete, no other representations or statements made by Chem-Crete or its representatives, in writing or orally, shall alter this warranty. Chem-Crete makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Chem-Crete product fails to conform to this warranty, Chem-Crete will replace the product at no cost to purchaser. Replacement of any product shall be the sole and exclusive remedy available and purchaser shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Chem-Crete does not authorize anyone on its behalf to make any written or oral statements which in any way alter Chem-Crete's product information or instructions in its product literature or on its packaging labels. Any application of Chem-Crete products which fails to conform to such application instructions shall void this warranty. Purchaser shall be solely responsible for determining the suitability of Chem-Crete's products for the purchaser's intended purposes.

## AVAILABLE COLORS



**Color Names:** (top left to right) Brick Red, Burnt Sienna, Burnt Umber, Clay, Dove Gray, Eucalyptus, Granite, Hickory, Onyx, Tin.

Contact the manufacturer to purchase stain or waterproofing sealer separately.



Manufactured by International Chem-Crete • 800 Security Row • Richardson, TX 75081 • U.S.A.

Tel 972.671.6477 Fax 972.238.0307 [chem-crete.com](http://chem-crete.com) [contactus@chem-crete.com](mailto:contactus@chem-crete.com)