

C² SALT HARD+

C² Salt Hard+ is a pre-measured, water-based, silane/siloxane water repellent and chloride screen concentrate additive specially formulated for mixing C² Hard or C² Super Hard. When properly mixed and applied, C² Salt Hard+ hardens, dustproofs and protects horizontal and vertical concrete surfaces from abrasion, moisture intrusion, and chloride salts – all in one easy application. Properly mixed and applied, the product penetrates and chemically bonds deep within the concrete substrate to provide long-lasting protection against moisture intrusion and water-related staining or deterioration. When properly applied, no surface film is produced. Treated surfaces keep their natural breathing characteristics and natural appearance.

C² Salt Hard+ is an effective alternative to conventional solvent-based silanes and siloxanes. In coastal areas, properly mixed and applied C² Salt Hard+ provides protection against salt air by screening chlorides from penetrating through concrete to the reinforcing steel. Properly applied, it reduces rebar corrosion and surface spalling caused by water-carried salts. Use on horizontal surfaces such as driveways, sidewalks, parking garages and other concrete masonry. Provides excellent protection for retaining walls, bridge pilings and other vertical areas exposed to de-icing salts. C² Salt Hard+ is also ideal for field or in-plant application to concrete masonry.

ADVANTAGES

- One easy application provides hardening, dustproofing, and protection from abrasion, moisture intrusion, and chloride salts.
- Effective protection against de-icing salts and salt air.
- Water-based formula minimizes explosion and fire hazards associated with alcohol- or solvent-based water repellents.
- Low odor reduces risk of application around occupied buildings.
- Alkaline stable – suitable for new “green” concrete, 14–28 days old.
- Treated surfaces “breathe” – does not trap moisture.
- Treated surfaces show excellent resistance to sunlight and alkalinity.

Limitations

- C² Salt Hard+ must be mixed with C² Super Hard or C² Hard before application and applied within 24 hours.
- Not for use on natural stone.
- Not suitable for protecting surfaces subject to constant water spray (car washes).
- Not suitable for application to coated surfaces or surfaces previously treated with water repellents.
- Will not prevent water penetration through structural cracks, defects or open joints.

- Not suitable for application to synthetic resin paints, gypsum, or other non-masonry surfaces. The product may not be suitable for surfaces to receive paints or coatings. Always test for compatibility.
- Not recommended for below-grade applications.

TYPICAL TECHNICAL DATA

FORM	White, opaque liquid Low odor
SPECIFIC GRAVITY	0.96 (concentrate)
pH	6–9 (concentrate)
WT/GAL	7.99 lbs (concentrate)
ACTIVE CONTENT	50% (concentrate)
TOTAL SOLIDS	42% (concentrate)
VOC CONTENT	<25 g/L (diluted)
FLASH POINT	>100°C (212°F)
FREEZE POINT	0°C (32°F)
SHELF LIFE	1 year in tightly sealed, unopened container

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

24-Hour Emergency Information:
INFOTRAC at +1-352-323-3500



REGULATORY COMPLIANCE

VOC Compliance

C² Salt Hard+ is compliant with the following US regulations:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, Arizona
- Northeast Ozone Transport Commission

Contact us at sales@cretecolors.com for compliance questions with individual country regulations.

PREPARATION

Protect people, property, windows, vehicles and all surfaces not set for treatment from spray, wind drift and fumes. Protect and/or divert pedestrian and auto traffic. Though the product has very little odor, avoid exposing building occupants to fumes. Maintain adequate ventilation.

Thoroughly clean the surface using the appropriate Crete Colors product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with the product's ability to penetrate the surface.

Though properly mixed C² Salt Hard+ may be applied to slightly damp surfaces, best performance is achieved on clean, visibly dry and absorbent surfaces. Excessive moisture inhibits penetration and reduces the service life and performance of the treatment. Clean newly constructed and repointed surfaces before application. C² Salt Hard+ will not impair adhesion of most sealing and caulking compounds. Always test for compatibility.

Surface & Air Temperatures

Must be at least 4°C (40°F) during application and for 8 hours following. Surface and air temperatures should not exceed 35°C (95°F). Higher temperatures evaporate the water carrier, reducing penetration.

If freezing conditions exist before application, let concrete thaw thoroughly. Subfreezing temperatures will freeze/crystallize C² Salt Hard+, inhibiting penetration and significantly impairing results.

Packaging

3.5L, or 20L containers

Equipment

May be applied using brush, roller or low-pressure (<50 psi) spray applicator.

When spray applying, use fan-type spray tips and adjust pressure to avoid atomization of the material. Sprayer should be fitted with stainless steel or brass fittings and gaskets suitable for handling alkaline solutions (rubber or viton). Avoid contact with metal hopper if using airless spray equipment.

Brushes and rollers should be of nylon or other synthetic materials resistant to alkaline solutions.

Storage & Handling

Keep from freezing. Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 7–38°C (45–100°). Do not double stack pallets. Dispose of unused product and container in accordance with local regulations.

APPLICATION

Read "Preparation" and the Safety Data Sheet before use.

ALWAYS TEST a small area of each surface to confirm suitability, coverage rate and desired results before beginning overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let surface dry thoroughly before inspection.

Dilution & Mixing

C² Salt Hard+ must be mixed with C² Super Hard or C² Hard before application. Mixed product must be applied within 24 hours.

Shake the concentrated product container well to mix thoroughly. Combine C² Super Hard or C² Hard in the following dilutions to make ready-to-use product:

- 1 – 3.5L container of C² Salt Hard+ to 14L C² Super Hard or C² Hard produces 17.5L
- 1 – 20L container C² Salt Hard+ Additive to 80L of C² Super Hard or C² Hard produces 100L

Mix well before and during each application. When environmental conditions cause rapid drying, mix with

PRODUCT DATA SHEET: C² Salt Hard+



C² Hard. For maximum densification, mix with C² Super Hard.

Typical Coverage Rates

Coverage rate will vary with concrete quality and porosity. Always test. DO NOT OVER APPLY.

Typical coverage is:

- 2 – 13 m² per Liter
- 200 – 700 ft² per US gallon

Application Instructions

Mix well before and during each application.

Vertical Surfaces

Sprayer: For best results, apply a thin single saturating coat to a thoroughly dry surface. When spraying, saturate from the bottom up. Use enough to create a 4–6 inch rundown below the spray contact point.

Brush or Roller: Minimize overlap. Saturate the surface. Brush out heavy runs and drips that do not penetrate.

Horizontal Surfaces: Apply a single, saturating coat so the surface stays wet for a few minutes. Thoroughly broom out any pools or puddles that do not completely penetrate the surface. Do not let puddles stay on surface.

Porous Surfaces: Apply a single saturating coat. Let the first application penetrate the surface. Re-saturate within 5 to 10 minutes. Less material will be required on the second application.

Dense Surfaces: Apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Test for application rate. Buff off excess material as soon as possible after application.

Treated surfaces will dry to the touch within 1 hour. Protect surfaces from rainfall for a minimum of 6 hours following treatment. Treated surfaces will be ready for pedestrian and vehicle traffic in 24 hours. Water repellency of treated surfaces will increase for up to 14 days after application.

Cleanup

Before product dries, clean tools and equipment with fresh water. Immediately wash off over spray from glass, aluminum, polished or other surfaces with fresh water.

Paint Adhesion

Surfaces treated with properly mixed C² Salt Hard+ may be coated with silicone emulsion paints and many oil-based paints. Always test to assure adhesion.

Adhesion may be improved if surface is pressure rinsed and allowed to dry before application. Adhesion of some cementitious coatings, plaster, stucco, etc. may be adversely affected. Such surface treatments should be installed and allowed to thoroughly cure before product application. Always test to verify compatibility between C² Salt Hard+ and other proposed surface treatments.

BEST PRACTICES

Thoroughly clean the surface using the appropriate Crete Colors product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with the product's ability to penetrate the surface.

If freezing conditions exist before application, let concrete thaw thoroughly. Subfreezing temperatures will freeze/crystallize C² Salt Hard+, inhibiting penetration and significantly impairing results.

C² Salt Hard+ must be mixed with C² Super Hard or C² Hard before application. Mixed product must be applied within 24 hours.

Mix well before and during each application. May be applied using brush, roller or low-pressure spray applicator (<50 psi).

When environmental conditions cause rapid drying, mix C² Salt Hard+ with C² Hard. For maximum densification, mix with C² Super Hard.

Surfaces treated with properly mixed C² Salt Hard+ may be coated with silicone emulsion paints and many oil-based paints. Always test to assure adhesion.



WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

Crete Colors International warrants this product to be free from defects. *Where permitted by law, Crete Colors makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.* The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. Crete Colors International's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves Crete Colors from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability.

This warranty may not be modified or extended by representatives of Crete Colors, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Email us at sales@cretecolors.com for technical support.

Factory-trained representatives are established in countries around the world. Contact us or visit our web site at www.cretecolors.com, for the name of the Crete Colors representative in your area.