



CHEM-CRETE CCC1000

Water Based Concrete/Stone Sealer & Water Repellent

PRODUCT DESCRIPTION

Chem-Crete CCC1000 is a ready-to-use, clear, deep penetrating, water based liquid concrete sealer and water repellent. **Chem-Crete CCC1000** is a colorless, non-staining, non-film forming and non-yellowing material.

PRODUCT FUNCTION

Chem-Crete CCC1000 penetrates deep into the surface, and chemically reacts to become an integral part of substrate. The chemical action results in a gel-like coating of the pore walls to block the ordinary capillary action of water. This produces a highly effective breathable, moisture barrier. Because the **Chem-Crete CCC1000** barrier is within the substrate, it is further protected from weathering and helps keep treated surfaces clean by resisting the entrance of airborne dirt and impurities. It eliminates efflorescence, and spalling from freeze-thaw cycles and protects against airborne dirt, smog, industrial fumes, acid rain and most other atmospheric chemicals. The deterioration of surface paints and adhesives, due to alkali attack is eliminated. Surface textures and colors are not affected.

FIELDS OF APPLICATION

Chem-Crete CCC1000 is used above and below grade to protect against moisture penetration by capillary action. It is formulated to protect dense concrete and masonry surfaces in one application, without altering the colour or textural appearance of the surface.

Substrates including pre-cast concrete, in-situ concrete, tilt-up concrete, monolithic concrete, stucco, clay brick, lime stone and other natural or manufactured stone. It is water-based product and is an excellent primer for paint.

COMPOSITION AND MATERIAL

Chem-Crete CCC1000 penetrating concrete sealer and water repellent is a propriety formulation of clear solution derived from several chemical solids. It is furnished in complete solution and requires agitation. The active ingredients form a breathable moisture barrier within the treated substrate during and following the drying-curing period. **Chem-Crete CCC1000** is water based, non-flammable and non-toxic.

ADVANTAGES

- Water based ready-to-use.
- UV resistant, non-staining and non-yellowing.
- Keeps stone and masonry looking clean and new.
- Allows substrate to breathe.
- Stops efflorescence.
- Treated surfaces can be refinished.
- Can be used on wearing surfaces.
- Water clean up.
- For use in old or new concrete.
- Abrasion resistance prevents dust.
- Fungus growth resistance.
- Stops the 'wet' look.

PACKAGING

<u>Product</u>	<u>Packaging</u>	<u>Item No.</u>
Chem-Crete CCC1000	17 lit/pail	95858/7
Chem-Crete CCC1000	200 lit/drum	95859/5

TECHNICAL DATA

Specific Gravity	1.06
Resistance to UV rays	Excellent
Water Permeance	Excellent
Accelerated Weathering ASTM G-23	No effect
V.O.C. Content	None
Moisture Vapor Permeability	ASTM E-96
Freeze Thaw Testing (-26°C/26°C, 1 hr/50 cycles)	ASTM C-666

APPLICATION DATA

Surface Preparation: Surface must be dry, clean, structurally sound and free of efflorescence, mortar residue and other contaminants that would prevent the penetration of **Chem-Crete CCC1000**. Repair surface defects, cracks and voids. Install caulking or joint sealant prior to application. Cure new masonry surfaces for a minimum of 28 days under normal weather conditions.

Techniques: **Chem-Crete CCC1000** may be applied to a dry or slightly damp concrete using airless spray equipment, brush, roller or broom.

Precautions: When spraying **Chem-Crete CCC1000** water repellent, care should be taken to protect nearby vegetation or articles from overspray. It will damage vegetation and will stain or etch glass, plastic, aluminum and most metals. If contact does occur, wash immediately with water.

- Do not apply to frozen or frost filled surfaces or when temperature is or expected to fall below 5°C
- Do not store **Chem-Crete CCC1000** below 5°C
- Do not use **Chem-Crete CCC1000** to seal cracks or voids.
- Keep out of reach of children
- Keep container closed when not in use

Coverage: The following coverage rates are approximate and for estimating purposes only. Make test applications on actual surfaces to determine coverage rates and effectiveness of the product.

Substrate	m ² /lt.
White or buff color concrete	3.68-4.91
Lime stone	4.91-5.4
Slump block	3-4.3
Pre-cast and poured concrete	3.68-4.91
Brick	3.68-4.91
Stucco	2.45-2.94
Plaster	3.68-4.91
Stone-tiles	4.91-6.14

Application: Agitate the pail before dosing into airless spray or application by rollers, etc. Apply onto the pre-treated substrate at above given coverage data with an even, uniform spreading rate.

If a white precipitate should form because of over application of **Chem-Crete CCC1000** and washing with water does not remove it, it maybe necessary to scrub the surface with a brush.

CLEANING

Use water to clean application equipment and tools, immediately following use.

STORAGE

Indefinite shelf life when stored in cool, dry place in unopened drums.
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. Keep away from children and animals. Any direct contact with skin, eyes, etc. should be washed thoroughly with clean running water and soap. Use proper safety wear, goggles, and mask, etc..

NOTICE

The information given in this publication is based on present state of our knowledge. Any recommendations and suggestions are made without guarantee since the conditions and procedures are beyond our control. Buyers and users should make their own assessment of our product under their own conditions and for their own requirements.

TECHNICAL ASSISTANCE

Saudi Chem Crete Co. Ltd. technical department with its highly trained and qualified Chemicals Marketing Advisory team provides a complete service in the field. Please consult your nearest service/sales department for assistance.

Field services where provided, do not constitute any supervisory responsibilities.

Manufactured in the Kingdom of Saudi Arabia by:



C.R. 4030137187

س.ت ٤٠٣٠١٣٧١٨٧

المركز الرئيسي: ص.ب ١٣٠٨١، جدة ٢١٤٩٣ هاتف: ٠٠٩١٧٧٠٠ (٠٢) فاكس: ٠٢)٦٩١٧٤٧٩

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