

## Product Description

BrushCote CL crystalline capillary waterproofing system contains proprietary blend of portland cement, quartz aggregate and special chemicals. In the presence of moisture, the active chemicals in BrushCote CL penetrates concrete and react chemically with free lime to produce insoluble crystals. This crystalline growth reduces porosity by blocking capillaries and filling hairline non structural cracks (upto 0.25mm wide) caused by shrinkage or expansion. Unlike metallic and membrane types of waterproofing which only form a surface barrier, BrushCote CL crystalline waterproofing system, in the presence of water, continues producing crystals and lasting imperviousness to water.

## Uses

BrushCote CL crystalline waterproofing system is used for waterproofing against the positive or negative sides of hydrostatic heads of water, for dampproofing, repairing cracks, plugging holes, sealing wall - floor joints and stopping active leaks in a wide variety of conditons including.

## Application Areas include

- Sewage treatment and water treatment plants, Tanks,
- Foundations, Tunnels and Manholes.
- Terrace Garden, Balconies, Sunshades etc.
- Roof and Sunken Slabs
- Industrial and Office Buildings
- Reservoirs, Water Holding Structures etc.

## Advantages

- Meets the requirements as per ANSI/NSF Std 61 for suitability to potable water
- Penetrates concrete, seals capillary tracts
- Contains no chloride
- Easy to apply
- Resists chemical attack of sewage and industrial wastes
- Suitable for external and internal applications.

## Properties

Specific gravity	1.6 to 2.0 g/cc
Pot life	40 minutes

## Instructions for use

### Surface preparation

#### Old concrete

Surfaces must be clean and sound. Remove all oil, dirt, laitance and other contaminants by water blasting. Water blasting is preferred for surface preparation because it mechanically cleans and roughens the surface, is environmentally safer and leaves the surface saturated with water. Surface must be damp for application of BrushCote CL crystalline waterproofing system, concentrate.

#### New concrete

After forms are stripped, acid etch or sand blast / water blast to facilitate penetration of crystals formed during the chemical reaction. Surface must be left damp for application on BrushCote CL crystalline waterproofing system. Construction joints, cold joints and non-leaking joints greater than 0.25mm wide must be cut in V-groove shape and filled with BrushCote CL crystalline waterproofing system in mortar consistency.

#### Mixing

For best results, clean, potable water should be added to BrushCote CL crystalline waterproofing system concentrate hours.

## Application

### Existing concrete

3 parts of powder shall be added to 1 part of clean and mixed thoroughly with a slow speed drill equipped with a paddle. For larger batches, mixing shall be done with a mortar mixer. Do not mix more material than can be used in 20 minutes @ 27°C, 50% R.H. If mixture thickens, it shall be restirred to reduce consistency. Extra water should not be added.

### Curing and Protecting

BrushCote CL crystalline waterproofing system application must be kept moist for a minimum of 48 hours. After initial set, moist curing, using continuous water spray is recommended. Treated surfaces shall be fog sprayed 3 to 4 times daily for the 48 hour period.

For warmer climates, more frequent spraying may be required. It is important to keep the BrushCote CL crystalline waterproofing system moist to allow the crystal formation to occur. The surfaces shall be protected from foot traffic for 48 hours or heavy traffic for 7 days. Freshly applied BrushCote CL crystalline waterproofing system must be protected from extreme weather conditions such as rain, strong winds, high temperatures and freezing for a period of not less than 48 hours after application. A minimum of 7 days of air curing shall be allowed prior to immersing the surface in water.

#### Clean up

Prior to curing, BrushCote CL crystalline waterproofing system concentrate may be cleaned from tools and other surfaces with water.

#### Limitations

BrushCote CL should not be used when the temperature is 5°C and falling. Full activation and effectiveness of BrushCote CL may require 2-3 weeks following application.

### Estimating

#### Supply

BrushCote CL	: 15 kg bags
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#### Coverage

BrushCote CL	: 1.0 to 2.0 kg/m <sup>2</sup> per application (brush)
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The coverage of BrushCote CL Crystalline waterproofing system is recommended depending upon the type of structure and application. Generally, it is applied in 2 coats for effective performance of the system.

#### Storage

BrushCote CL crystalline waterproofing system concentrate should be stored in protected, dry areas. When left in original unopened package, BrushCote CL crystalline waterproofing system will maintain its design performance characteristics for 1 year.

### Health & Safety

BrushCote CL crystalline waterproofing system contain chemicals that may cause irritation to the eyes and skin. Goggles, rubber gloves and long sleeves should be worn when working with these products. Read warnings noted on product package and refer to product material safety datasheet prior to use.

**Important:** Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

#### For Complaints/Suggestions:

Please write to our Customer Care Executive at  
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