



**SILKON**  
ADDITIVES (INDIA) PVT LTD

# SILPROOF CC

Silproof CC crystalline waterproofing system is used for waterproofing against the positive or negative sides of hydrostatic heads of water, for damp proofing, repairing cracks, plugging holes, sealing wall - floor joints and stopping active leaks in a wide variety of conditions including :

## Product usages and advantages:

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

## Description

Silproof CC crystalline capillary waterproofing system contains proprietary blend of portland cement, quartz aggregate and special chemicals. In the presence of moisture, the active chemicals in Silproof CC crystalline waterproofing system 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, Silproof CC crystalline waterproofing system, in the presence of water, continues producing crystals and lasting imperviousness to water.

## Technical support

Silkon provides a technical advisory service for on-site assistance and advise on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for Silproof CC and other products.

## METHOD OF APPLICATION:

### Surface Preparation:

Remove all laitance, oil, grease, mould oil, curing compound, etc using a wire brush or for large floor areas, a scrubbing machine. Ensure that reinforcing steel is clean and free from grease or oil, remove scale and rust. When repairing spalled or damaged concrete, ensure that the sound surface is exposed.

All concrete surfaces shall be thoroughly pre-wetted prior to the application of Silproof CC coating by pouring water on flat surface or by spraying water on vertical/inclined surfaces.

When placing Silproof CC coating, water should be removed so that surface is only damp. In no case there should be standing water.

### Mixing:

For best results, clean, potable water should be added to Silproof CC crystalline waterproofing system concentrate

### Coating:

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 re-stirred to reduce consistency. Extra water should not be added.

### Curing & Protection:

Silproof CC 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 Silproof CC 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 Silproof CC 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.



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## **Cautions:**

**Silproof CC** system must be applied with temperature above 5° C and below 40° C.

**Silproof CC** should not be used without addition of cement.

## **Properties:**

Specific Gravity : 1.6 to 2.0 g/cc  
Pot Life : 40 Minutes  
Coverage : 1 to 2 Kg/M<sup>3</sup>

The coverage of 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.

## **Tools and Equipment Cleaning:**

All tools should be clean with water immediate after use.

## **Packaging:**

25 Kg, HDPE Bags

## **Shelf Life:**

12 months if stored under normal warehouse conditions below 35° C, in unopened containers.

## **Health and Safety:**

Silproof CC is non-toxic. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. Should use a dust mask while handling the powder.

## **Fire**

Silproof is inflammable..