



## CCC SURFACE HARDENER

### DESCRIPTION

**CCC Surface Hardener** is a ready-to-use liquid floor densifier, hardener, and dust proofer, based on a water-soluble blend of sodium silicate synthetic resins. Formulated to penetrate the concrete surface through a chemical reaction, it leaves a hard wearing and dust free surface that is higher in abrasion resistance than untreated surfaces.

### USES

**CCC Surface Hardener** acts as a surface hardener and dust proofer on old and new concrete floors, terrazzo and many porous surfaces through surface densification. Typical applications include outdoor and indoor floors, warehouses and car parking. **CCC Surface Hardener** is ideal for surface densification of polished concrete applications.

### ADVANTAGES

- Ready-to-use.
- Easy to apply – does not require special equipment or skills.
- Hardens concrete surfaces through deep-penetrating chemical reactions that form a hard wearing and durable surface that is resistant to chemical attack from oils and grease.
- Prevents dust formation from within the treated surface.
- Economical and cost-effective

### LIMITATIONS

Not recommended for colored surfaces.

### COVERAGE

Must be applied full strength, never dilute. Coverage rates depend on porosity and texture of the surface, method of application, and other surface and job conditions. For best results, **CCC Surface Hardener** should be applied at about 5 sq meters/liter.

### SURFACE PREPARATION

Surfaces to be treated with **CCC Surface Hardener** must be structurally sound and free from dirt, dust, oil, grease and any loose materials. If necessary, clean with caustics and detergents, followed by washing with clean water and allow to thoroughly dry before application of **CCC Surface Hardener**. Cracks or holes should be repaired prior to application and the repair material should be allowed to cure before application.

## **CLEANING**

Clean all tools and equipment promptly with fresh water.

## **STORAGE & SHELF LIFE**

Keep material covered to prevent exposure to moisture. Store in a cool, dry area away from direct sunlight. Expected shelf life is 12 months from date of purchase when stored under recommended conditions in original unopened container.

## **PACKAGING**

20-liter bucket.

## **APPLICATION**

**CCC Surface Hardener** is ready to use out of the drum, no dilution is required. For best results, **CCC Surface Hardener** should be flood-applied by spray application. Generously flood the surface while scrubbing into the surface with a soft nylon broom or brush. Allow to stand for 15-20 minutes. NEVER ALLOW THE SURFACE TO DRY; continuously mist with water to prevent drying. After 15-20 minutes re-agitate into the surface by scrubbing with a brush while misting with water to prevent drying. Allow to stand for another 10 minutes while misting regularly to prevent drying. Flood with plenty of clean water and squeegee off any excess materials. Do not allow a film to form on the surface.

## **SAFETY AND PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. HIGHLY ALKALINE MATERIAL – HIGHLY IRRITANT TO SKIN AND EYES. Use in adequate ventilation and do not breath vapors. Use neoprene gloves, mask and protective clothing when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

## **PHYSICAL PROPERTIES**

Appearance	Colorless, Odorless
VOC (USEPA 24)	< 0.01 g/l
Loss of Water (ASTM C 156 - 2003) Treated Concrete Untreated Concrete Δ Improvement	8.73 kg/ m2 9.69 kg/ m2 10%