TECHNICAL DATA SHEET

SCL SILICATE SOLUTION

CURING*AID, HARDENING AND DUSTPROOFING SOLUTION FOR CONCRETE

SCL SILICATE SOLUTION is a clear water-soluble, premium sodium silicate concrete hardener that assists in the curing*, hardening and dustproofing of concrete. It is easy to apply, leaves no residue and dries quickly.

SCL SILICATE SOLUTION is ideal for use on newly placed or existing, interior or exterior concrete floor slabs, sidewalks, driveways, beams, columns, etc.

ADVANTAGES

- Non-flammable, non-toxic and non-acid; no harmful fumes or odors.
- Hardens and Dustproofs sound concrete.
- Minimizes shrinkage cracking, crazing and dusting, among other defects.
- Enhances the functional capabilities of concrete by "sealing in" the performance assets of strength and long life.
- Easy application, quick drying.
- Does not affect bondability of concrete.
- Aid for curing* new concrete.
- Cures* and chemically hardens concrete in one application.
- Protects floors during construction.
- Improved resistance to abrasion and corrosive action of salts and chemicals.

DESCRIPTION

Packaging – 18 litre bucket
210 litre drum

Colour – clear

Shelf Life – 1 year when properly stored

Storage – Store in unopened containers in cool, clean, dry conditions.

YIELD

	Approximate m^2 per litre, per coat
Broomed Surface	**7.35 - 9.82**
Trowelled Surface	**12.27 - 14.73**

For best results for succeeding coats, increase coverage rate for each succeeding coat. Coverage varies with application method and the texture and porosity of the surface.

APPLICATION

SCL SILICATE SOLUTION is not a film-forming product, but should fully saturate the concrete for maximum effect. Perform enough applications for **SCL SILICATE SOLUTION** to fully saturate (but not puddle) the concrete by following the instructions below.

1. Apply **SCL SILICATE SOLUTION** by brush, squeegee, or sprayer. Use spray application for best results.
2. Always apply to form a continuous, uniform film over the surface. Brush out puddles and runs immediately.
3. Under general conditions, 1 coat produces a light-duty surface. Surface wearability increases proportionately with each additional application. Coverage is influenced by surface conditions and porosity, as well as job requirements.
4. NOTE: It is the responsibility of the user to adjust the curing rate to properly regulate the hydration of the concrete. Two applications may be required. The rates given are approximate, assuming average concrete finish, temperature and admixture used. Each application must be thoroughly dried before the next is applied (See Drying Time).
5. When used as a curing aid, apply to edges after forms are removed.

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CLEAN UP

Clean brushes, tools and equipment and flush sprayers with clean water immediately after use.

DRYING TIME

1. **SCL SILICATE SOLUTION** penetrates in approximately ½ to 1 hour per application, influenced somewhat by temperature, humidity and job conditions. Each application must penetrate thoroughly before proceeding.
2. **SCL SILICATE SOLUTION** must completely dry before accepting any traffic. Allow 24 hours before subjecting to heavy traffic.

FOR BEST PERFORMANCE

- Do not dilute or alter.
- Do not use over colored or white concrete unless a test area is completed.
- Contact manufacturer if product is to be used with metallic aggregates.
- Applications under high-humidity conditions may produce a slippery film. This may be removed with clean water and a stiff-bristled broom.
- Wait at least 7 days before applying tile or floor covering adhesives over **SCL SILICATE SOLUTION**. Before applying adhesives, wash surface with water and **SCL's Speklean**, rinse and allow to dry thoroughly. A test application is advised.
- Protect metal, glass, wood, paint and brick from contact with **SCL SILICATE SOLUTION**. If **SCL SILICATE SOLUTION** is accidentally applied to these surfaces, wash with clean water within 30 minutes.
- For subsequent coating applications, perform proper surface preparation and consult the coatings manufacturer for more instructions.

NOTE

SCL SILICATE SOLUTION is a sodium silicate based sealer, hardener, and dust reducer, which will not interfere with the bonding of coatings, coverings, or tile to the finished precast surface.

* According the ASTM Committee on Curing, no sodium silicate curing compound will meet the ASTM-C-309 specifications. ASTM C309 refers to membrane type compounds only. **SCL SILICATE SOLUTION** promotes the development of pore blocking compounds which reduces the evaporation of water needed for hydration, thus aiding in the curing process.

The Corps of Engineers specification on floor hardeners, CEGS-03300, Section 6.6, approves the use of sodium silicates in lieu of zinc or magnesium fluosilicates if the solution has a specific gravity of more than 16.7 degrees Baume. **SCL SILICATE SOLUTION** meets this requirement.

HEALTH & SAFETY

SCL SILICATE SOLUTION contains sodium silicate, a skin and eye irritant.

INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Use with adequate ventilation. Keep container closed. DO NOT take internally.

Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION.

In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION.

If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.