



CSX.0253

QL NANO LITHIUM HARD

Hardener, sealant, water-repellent, thickener, consolidating and protective

Dosage

0.08 l/m²

Packaging

- Plastic can 5 l
- Plastic can 25 l

Application

- Brick trowel
- Low pressure airless nebulizer
- Scrubbing brush
- Spraye

Family
Consilex

Product Lines

- Building
- Infratech
- Sanageb

Components
Single-component

Type
Water based silicate solutions

Functional Categories

- Construction of high performance industrial concrete floors
- Wall structure treatments and repair of industrial concrete floors
- Realkalinization and renovation of existing cement conglomerates
- Prefabrication
- Curing compounds for industrial floors, screeds and concrete in general

Appearance
Liquid

General description

Hardener, sealant and chemical thickener for concrete surfaces QL NANO LITHIUM HARD is a lithium silicates and patented treatment for surfaces in cement conglomerates that penetrate and seal the concrete, reacting chemically with it, forming a transparent, thick, hard wearing surface that is extremely hard, inorganic, breathable and resistant to abrasion. Excellent for concrete floors requiring long term protection against wear, exposure to unfavourable conditions, humidity, dirt build up, alkalinity and efflorescence (salt residue).

General features

QL NANO LITHIUM HARD deeply penetrates the capillary pores of the concrete, reacting chemically with the free lime to form a permanent and insoluble bond with the concrete. It creates a protective surface layer, which is breathable, thick and resistant to abrasion. It provides a stronger finish, which is impenetrable and pleasant from an aesthetic point of view (smooth-polished) capable of resisting dust, stains and wear. It reduces maintenance intervention and cleaning and repair costs.



Fields of application

Hardening, sealing, consolidating and dust-proof treatment of industrial floors and screeds in concrete, both old and new, both grey and coloured.

Available colours

- Transparent

Basic features

 Density: 1.11 kg/dm³  Shelf-life: 12 months

Technical specifications

pH: 11 _

Tools cleansing

- Water

Applicable on

- Concrete
- Floor screed

Substrate preparation

The application surfaces should be clean, free of containment, inconsistent and incoherent parts, dust, etc., conveniently saturated with water to reach the "saturated to dry surface" condition.



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Instructions for use

Apply QL NANO LITHIUM HARD using a sprayer, roller or brush on the existing concrete surfaces. Always check the surfaces of the concrete are suitable and capable of offering the desired results. Before inspecting and approving the desired application, leave the surface to dry perfectly. The application time on the hardened support should be 24 hours at least in the summer time. 4 - 7 days recommended for the rest of the year.

NEW CONCRETE SURFACES

QL NANO LITHIUM HARD can be applied on the concrete surfaces when immediately created after the last finish with the trowel. Carefully clean the substrate, eliminating all the foreign materials such as non-stick products, hardeners, oil, dust, construction efflorescence, gypsum wall residue etc. Use an airless sprayer or type HVLP to apply QL NANO LITHIUM HARD, in such a way to form a regular, even, compact and polished layer, ensuring total saturation of the surface. Apply a quantity of QL NANO LITHIUM HARD sufficient to keep the surface wet for 20 minutes. Leave the surfaces to dry (generally for 1 or 2 hours). Proceed by applying a hardening agent according to the standard ASTM C 309.

EXISTING CONCRETE SURFACES

- Carefully clean the substrate, eliminating all the foreign materials such as non-stick products, hardeners, oil, dust, construction efflorescence, gypsum wall residue, etc. Before proceeding, ensure the surface is dry.
- Use a low pressure sprayer to apply QL NANO LITHIUM HARD in such a way to saturate the surface.
- Distribute QL NANO LITHIUM HARD on the surface using an automatic floor washer or a hard brush to facilitate penetration.
- Leave the QL NANO LITHIUM HARD to act for 20-30 minutes.
- Keep the surface wet with QL NANO LITHIUM HARD for 20 - 30 minutes (if necessary, add other product).
- Remove the QL NANO LITHIUM HARD residue with clean water.
- Leave the surface to dry.

Storage and preservation

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance.



Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

PRECAUTIONS FOR HEALTH AND SAFETY

QL NANO LITHIUM HARD is an aqueous solution of lithium silicate that uses proprietary compounds. It is an alkaline treatment that can irritate the eyes and skin. **KEEP OUT OF REACH OF CHILDREN.** QL NANO LITHIUM HARD corrodes glass and painted surfaces. Wash the product away immediately with water if there are accidental sprays on glass or painted surfaces. Attention: surfaces treated with QL NANO LITHIUM HARD may be slippery. Sale and re-sale to the public is forbidden. This product is only intended for professional use and must be applied by an authorised person or an authorised technical support worker.



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