



CSX.0253

## QL NANO LITHIUM HARD

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

### Customs Code

3824 9970

### Packaging

- Plastic can 5 l
- Plastic can 25 l

### Application

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

Family  
Consilex

Product Lines

- Building
- Infratech
- Sanageb
- Floor

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.


## Basic features

 Density:  
1.11 kg/dm<sup>3</sup>

 Nonflammable

 Shelf-life:  
12 months

 Solvent-free

 Available colours  
Transparent

## Technical specifications

pH: 11 \_

### Tools cleansing

- Water

### Applicable on

- Concrete
- Floor screed

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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.

## 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.

## 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.



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## Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

### 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.

*QL NANO LITHIUM HARD is produced/distributed by*



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