

# QL Nano Lithium K

Chemical/mechanical hardener, dustproof, lithium and potassium silicate



Nano-technological chemical/mechanical hardener, non-film-forming, based on Lithium and Potassium Silicates, for cortical consolidation, surface chemical hardening and dustproofing of industrial concrete floors. QL Nano Lithium K is usually used on polished concrete floor surfaces between the polishing phases, but can also be used on machine-troweled concrete as a final treatment.

**CUSTOMS CODE:** 3824 9970

**COMPONENTS:** Single-component

**APPEARANCE:** Liquid

**AVAILABLE COLORS:** Transparent

**PACKAGING AND DIMENSIONS:** Plastic can 5 l - Plastic can 25 l

## FEATURES AND BENEFITS

Properties of QL Nano Lithium K:

- Penetrates deeply
- Reacts with free alkalis in concrete to form calcium silicate hydrate (CSH), to form a crystalline structure similar to glass
- Increased resistance to abrasion
- Anti-dust treatment
- Drastic reduction of porosity

## FIELDS OF APPLICATION

Hardening, sealing, consolidating, dust-proofing treatment for industrial floors and concrete screeds, both old and new.

## ALLOWED SUPPORTS

Concrete

## PREPARATION OF SUPPORTS

The application surfaces must be clean, free from dirt, loose or inconsistent parts, dust, etc. In order to best open the surface porosity of the flooring, proceed with diamond grinding of the appropriate type based on the characteristics of the support. Then proceed with careful vacuuming of the dust.



## MODE OF USE

Apply QL Nano Lithium K by sprayer, roller or brush on existing concrete surfaces. Always check that the concrete surfaces are suitable and capable of providing the desired results. Allow the surface to dry completely before inspecting and approving the desired application. The application time on the hardened substrate must be at least 24 hours in the summer period. Recommended 4 to 7 days during the rest of the year.

EXISTING CONCRETE SURFACES - Thoroughly clean the substrate, removing all foreign materials such as non-stick products, hardeners, release oils, dust, construction efflorescence, plaster wall residues etc. Before proceeding, ensure the surface is dry. - Use a low pressure sprayer to apply QL Nano Lithium Hard in such a way as to saturate the surface. - Allow QL Nano Lithium K to act for 20-30 minutes. - Allow the surface to dry.

## APPLICATION METHODS

Brush - Scrubbing brush - Low pressure airless nebulizer

## TOOL CLEANING

Water

## KEY FEATURES

☒ Dosage: 0.07 - 0.10 l/m<sup>2</sup>

☒ Shelf-life: 12 months

☒ UV-resistant

☒ Nonflammable

☒ Solvent-free

## CONSUMPTION

Apply 0.07 to 0.10 litres of QL Nano Lithium K per square metre of surface to be treated.

## STORAGE AND CONSERVATION

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 AND PRECAUTIONS

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.

