



Technical Data Sheet

HARDTOP LQ

Liquid Surface Hardener, Sealer and Dust Proofer

Description:

HARDTOP LQ is a clear surface hardener and dust proofer for application onto concrete and cementitious floors, based on sodium silicate. It can be used to harden concrete flooring. It also increases abrasion resistance and reduce dusting of concrete surfaces. HARDTOP LQ reacts chemically with the free lime and other calcium products in the cement, to provide hard insoluble crystals which binds the particles together to produce permanent protective coating.

Uses:

HARDTOP LQ can be used as a hardener, dust proofing, and as a sealer for old and new surface of concrete floors in several applications including:

- Pedestrian concrete pavements.
- Granolithic paving.
- Precast concrete elements.
- Warehouses, light industrial workshops.
- Car parks, garages.
- Exposed aggregate pavement.

Advantages:

- Increases abrasion resistance and improves surface hardness.
- Reduces porosity of the concrete surfaces providing some chemical resistance to mild organic acids, alkalis, salts, foods, fats, oils, and greases.
- Densifies, strengthens, seals and dustproofs soft or dusty concrete floors.
- Reduces slightly the loss of water of new concrete while setting.
- Reduces floor dusting and efflorescence
- Single component, easy application.
- Good penetration.
- Cost effective.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease.

Surfaces contaminated by oil or grease should be treated with suitable chemical de-greaser then washed with clean water. Cracks in concrete should be repaired using one of the recommended MATEX Repair Products.

HARDTOP LQ should be applied only on dry surfaces in order to achieve a perfect penetration of the product. Colored cement flooring should be tested at small area to ensure that the product will not change the flooring color.

Mixing:

HARDTOP LQ is a single component ready to use product. It may need only to be stirred before application.

Application:

Pour HARDTOP LQ onto the surface of the floor and spread evenly with a brush, squeegee or a powered sprayer. Spread the solution by moving the broom back and forth over the surface to guarantee a good penetration. Allow the solution to be absorbed for a period of 30-45 minutes. The material begins to gel and becomes slippery. Wet the material slightly with a water spray to reduce slipperiness and rework into the surface for 10-20 minutes with a soft bristle broom or floor scrubbing machine. After about 20 minutes, the material will return to a gel. Rinse the floor and remove any excess material using a squeegee, wet vacuum or mop. On porous, rough textured surfaces, a second coat may be required.

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Coverage:

HARDTOP LQ achieves coverage of approx. 9-10 square meters per liter each coat.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

HARDTOP LQ is available in 20 liter pails and 200 liter drums.

Storage Conditions:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

Shelf Life:

HARDTOP LQ can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean tools and equipment with water before material hardens. Hardened materials can only be removed mechanically.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to HARDTOP LQ Material Safety Data Sheet.

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