

Teknoser Lityum

Capillary Effect Water Based Liquid
Surface Hardener for Mineral Surfaces



Product Description TEKNOSER LITYUM is a low viscosity lithium silicate based liquid surface hardener.

Areas of Usage TEKNOSER LITYUM is used to permanently harden all cement based surfaces, for example:

- Production areas,
- Storage areas,
- Cold storage areas,
- Outdoor and indoor parking grounds,
- Airplane hangars, heliport,
- Quays

Features and Benefits

- TEKNOSER LITYUM, penetrates deeply into the concrete or screed surface and creates crystals that insoluble in pores. On surfaces where TEKNOSER LITYUM is applied;
- Water absorption decreases.
- Hardness increases over time and remains constant,
- Frictional strength increases continuously,
- Certain dust free is provided,
- Consists of brightness and vibrant color,
- Cracking is prevented,
- Wearing is prevented,
- Damages caused by freezing are prevented,
- Water vapor passes.
- There is no need for another floor covering.

Application Instructions

The surfaces to be applied to TEKNOSER LITYUM should be dry or mat damp, hard, strong and not water holes. Dust, plaster residual, oil, tire track, such as paint residuals separator and adherence should be free from elements preventing. A chemical process (vapor barrier) must not be applied. Fresh concrete does not need surface preparation. It should be pressed on it and there should be no water layer on it. Vapor barrier cannot be applied before TEKNOSER LITYUM application. TEKNOSER LITYUM is used in a method suitable for the Surface Condition (for example, broom, vacuum cleaner, brush, pressure water, etc.) should be cleaned.

Also, the surface must be suitable for the following requirements:

Concrete Quality: min. C 20/25

Screed Quality: min. EN 13813 CT-C25-F4

Application Method / Equipment: TEKNOSER LITYUM is applied to fresh concrete or screed through core spray system. TEKNOSER LITYUM is applied on a single layer equal to the surface and to fill the pores. The sprayed material is evenly distributed to the surface with a thin fiber brush or a tyre trowel. Be careful not to accumulation on the surface. Applied material is left to dry.

Application Notes / Restrictions

- During application at high temperatures, the floor must be fully saturated with water. TEKNOSER LITYUM application should be done while the ground is moist, but there should not be puddles of water.
- TEKNOSER LITYUM cannot be applied to frozen, dirty or wet surfaces.
- A small amount of color differences can occur due to different absorption degrees of the ground.
- Acidic cleaning materials should not be used.
- Regularly cleaning of the surface increases the brightness.
- Instantly brightness are provided to polish the surface.
- Outlay depending on smoothness and absorbency of the application surface. Tools and materials used in the application should be washed with water immediately after using.

Technical Data

General Information	
Chemical Structure	Lithium Silicate
Appearance	Gauze Colloid
Shelf Life	2 years
Package	17 kg Metal Pail
Consistency	1,10 (g/cm ³) (EN ISO 2811-1)
Outlay	Surface covering between 1 liter and 6-20 m ²
Application Temperature	(+ 2°C) - (+38°C)
Curing Period	4 - 6 hours
Hardening Period	7 days

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

