

# TechnoHard™LS

Lithium Silicate Hardener of Concrete Floor

TECHNOPOL

مقاوم سازی تکنوپل

## PRODUCT DESCRIPTION

TechnoHard™LS is a hardener & densifier for concrete floors. TechnoHard™LS is a lithium silicate solution that is used to increase the abrasion resistance of concrete, gloss the floor surface and prevent the formation of dust on concrete surfaces. TechnoHard™LS penetrates the concrete, seals the pores and cavities and creates a chemical reaction with the calcium and magnesium salts in the texture of the concrete to create a hard mineral layer that is resistant to water, chemicals and abrasion.



Buildings  
Structures



Transportation  
Infrastructure



Water &  
Wastewater



Oil, Gas &  
Industrial



Waterfront  
Structures



Industrial  
Facilities

## TECHNICAL DATA

	Unit	TechnoHard™LS
Form	-	Clear & liquid
PH	-	11.0
Density	g/cm <sup>3</sup>	1.1
VOC content	g/L	<20
Active content	-	6.0%
Total Solid	-	6.0%
Flash Point	-	Nom Flammable
Shelf Life		2 years in unopened factory sealed container

## ADVANTAGES

- Increased abrasion resistance due to frequent passing of persons and vehicles
- Anti-dust surface
- Increasing the resistance of concrete to dynamic and impact loads
- Creates radiance and glossy surface on concrete floors
- Easy cleaning of concrete surface
- Increase the life of concrete floors
- Prevent flaking of the concrete surface

## TYPICAL USES

Transportation of people and vehicles and depots is heavy equipment that requires the need for flooring with high resistance to abrasion and heavy shocks. They must also be resistant to non-structural factors such as water penetration and environmental conditions.

Therefore, TechnoHard™LS can be used in the following cases:

- Concrete floors of Food factories, petrochemicals, automotive & aircraft industries
- Sealing concrete on the floor of warehouse and basement such as food warehouse
- Parking of residential and commercial buildings
- Internal and external horizontal concrete surfaces
- Decks and ramps

## PACKAGING

TechnoHard™LS available in 5liter plastic cans.

## MIXING

TechnoHard™LS is a ready to use liquid product, so stir slightly to use

## INSTALLATION PROCEDURE

### PREPARATION OF SUBSTRATE

Weak parts of the concrete surfaces should be removed first and cracks should be repaired with grout, prepare the smooth surface to use TechnoHard™LS. After repairing, remove dust and oil on surface of concrete, wash it with water and wait for drying the concrete surface.

### APPLICATION

TechnoHard™LS is a ready-to-use liquid product that can be used after stirring. It



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can be sprayed on concrete surfaces using a sprayer or brush on concrete surfaces with a roller. Do this until the concrete surface is gel-like, then moisten the surface and continue working for another quarter. After the surface is slippery, rinse it with water and wait for about 30 minutes, then rinse with drinking water and finally dry it.

#### Maintenance Instructions

Store unopened TechnoHard™LS in a dry and humid environment at a temperature between 10-30 ° C. This product is non-flammable but Reacts with metals such as aluminum, copper, brass, zinc or galvanized and even iron containers so don't use cans of this material. Due to the absorption of atmospheric carbon dioxide by this substance, they should be stored in the main containers in the form of seals.

#### CAUTION

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapor until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

#### FAIRST AID

##### *Skin*

In case of contact with skin, rinse immediately with soap and water.

##### *Eyes*

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

##### *Inhalation*

Remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

##### *Ingestion*

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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