



## HIND PENTRO HARD LH

### PRODUCT DATA SHEET

#### LITHIUM BASED CHEMICAL HARDENER AND CONCRETE DENSIFICATION COMPOUND FOR FLOORS

##### DESCRIPTION

**Hind Pentro Hard LH** is a unique lithium silicate based compound in liquid form for densification of concrete, chemical hardener and full proof waterproofing is achieved by brush application. It is a colorless and ready -to-use compound containing active chemicals which penetrates deep into the concrete surface. On application of **Hind Pentro Hard LH** its gives a hardened, dust-proof and chemical resistant surface. It reacts with the concrete chemically and penetrates deeply to solidify all ingredients in concrete to form a homogenous mass. Concrete solidification leads to hardened surface, sealing micro channels and pores resisting water penetration, chemical attack which in turn improves the abrasion resistance, dust accumulation and pitting.

##### USES

**Hind Pentro Hard LH** is used for case hardening of concrete surface and to obtain absolute dust proof surface. On its application a improved highly chemical resistant surface is obtained. It is used for all type of industrial concrete floors, warehouses, chemical processing plants, car park and basements, storage silos, sewage plants, refineries and heavy pedestrian floor trafficking areas in civic centres, stadium, airport, hospitals and museums. Floors constructed with metallic floor hardener can be protected to prevent oxidation on its application on the floor surface.

##### ADVANTAGES

- It provides a tough abrasion resistant surface which does not turn yellow or decolorizes.
- Single component, ready to use.
- It penetrates deep into the surface, densify and hardens concrete which does not allow entry of moisture or any other foreign matter
- Scratch and peel proof.
- Chemical resistant and dustproof and surface becomes abrasion resistant .on its application.
- It is cost effective due to high coverage.

##### APPLICATION

**Surface Preparation:** It can be applied over all concrete substrate ( made using OPC or PPC cement ) which should be free from all foreign materials such as curing compounds, shutter release oils, dust, grease, algae and any rust scale by vigorous cleaning with wire brush, chipping or grinding. Over the cleaned dry surface **Hind Pentro Hard LH**, to be applied by spraying, squeegee or broom after slightly agitating the mixture in the container. The excess material is to be scrubbed with a mechanical scrubber or stiff broom. The drying time of **Hind Pentro Hard LH** depends on the nature of the concrete surface. If the surface is new and fresh it gets dried up within 2-3 hours. For old concrete drying time may get extended due to surface conditions. Traffic should not be allowed between 4- 12 hours on coated surface. To get a shinny floor after application of **Hind Pentro Hard LH**, it should allowed to get completely dry overnight and polished with high speed electrically operated buffer equipped with black pad initially and finally with red pad. Concrete floors treated with of **Hind Pentro Hard LH**, can be recoated with **Hind Epoxy floor** coating after 24 hours of its application.

**Cleaning/Maintenance :** Floors treated with **Hind Pentro Hard LH** can be regularly cleaned, using high pH detergents which allows the shine to get increased. Oils & acid spillages should be removed properly to avoid damage of the floor and tyre marks can be removed with citrus type cleaner,

## PROPERTIES

Aspect	Transparent Liquid
pH value	10.60 + 2
Specific gravity	1.20 ± 0.05 at 27 <sup>o</sup> C
pH	Alkaline
VOC	NiL
Abrasion Resistant (ASTM C779)	0.314mm thickness loss in 30 mins. 0.563mm thickness loss in 60 mins.
Impact Resistance (ASTM C805)	38 (By Rebound Hammer Test)
Material Penetration	17-19mm in to the concrete surface
Curing efficiency Test (ASTM C 856)	No Cement particle found proving that curing was proper
Coverage	<b>5-10 Sq.Mtr/Kg</b> depending on the porosity of the surface. The coverage will be less which applied over textured surfaces.

## APPLICATION TEMPERATURE

**Hind Pentro Hard LH** is recommended to be applied when the temperature of substrate should not be less than 5<sup>o</sup> C and higher than 35<sup>o</sup> C.

## SHELF LIFE

**Best before 6 months** from the date of manufacture in unopened container. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 5<sup>o</sup> C (Min.) and 50<sup>o</sup> C (Max.)

## PACKING

**20 Kg & 225 Kg** HDPE Container.

## HANDLING PRECAUTIONS

**Hind Pentro Hard LH** is non-toxic, non-flammable and inhalation to be avoided. Any splashes to skin if happens, wash with water. If contact with eyes occurs, immediately wash with water and seek medical advice.

### Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which be supplied on request.

## HINDCON CHEMICALS LIMITED

(AN ISO 9001: 2015 COMPANY)

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