



## HIND PENTRO HARD

### PRODUCT DATA SHEET

#### CHEMICAL HARDENER AND CONCRETE DENSIFICATION COMPOUND

#### DESCRIPTION

**Hind Pentro Hard** is a unique 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** it 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 a hardened surface, hence dust accumulation and pitting is resisted.

#### USES

**Hind Pentro Hard** is used for case hardening of concrete surface and to obtain an absolute dust-proof surface. On its application, an improved highly chemical resistant surface is obtained. It is used for all types of industrial concrete floors, warehouses, chemical processing plants, car parks and basements, storage silos, sewage plants, refineries and heavy pedestrian floor trafficking areas in civic centres, stadiums, airports, 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 decolorize.
- Single component, ready to use.
- It penetrates deep into the surface, densifies and hardens concrete which does not allow entry of moisture or any other foreign matter.
- Scratch and peel proof.
- Chemical resistant and dust-proof and surface becomes abrasion resistant on its application.
- It is cost effective due to high coverage.

#### APPLICATION

**New Concrete Surface:** It can be applied over new concrete surface after final trowelling.

**Over Old Concrete Surface:** Before application over old concrete surface, the surface is to be vigorously cleaned by wire brush, chipping or grinding so that it becomes free from oil, dust, grease, algae and any rust scale. Over the cleaned dry surface **Hind Pentro Hard** is to be applied by spraying, squeegee or broom after slightly agitating the mixture in the container. The material is to be scrubbed with a mechanical scrubber on the surface until it gels (min. 45 minutes). After such operation, spray material with water and continue to work on the surface for a few more minutes (7-8 mins). Excess material is to be cleaned by squeegee or a mop. Finally, the surface is required to be flushed with water. It is recommended to recoat the surface where the surface is porous and penetration even takes place after the first coat. The drying time of **Hind Pentro Hard** 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.

#### PROPERTIES

Aspect	Transparent Liquid	
pH	10.60 + 2	
Specific gravity	1.20 + 0.05 at 27°C.	
Coverage	Broom Application	20-25 Sq. Mtr per Kg
	Trowel Application	35-40 Sq. Mtr per Kg
	Fresh Surface	20-25 Sq. Mtr per Kg
	Old Surface	15-20 Sq. Mtr per Kg

**Note:** Coverage may vary depending on the porosity of the surface

## APPLICATION TEMPERATURE

**Hind Pentro Hard** is recommended to be applied when the temperature of concrete should not be less than 2<sup>0</sup> C and higher than 57<sup>0</sup> C.

## SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from **direct** sunlight at temperature ranging between 2<sup>0</sup> C (Min.) and 50<sup>0</sup> C (Max.)

## PACKING

20 Kg & 225 Kg Container.

## HANDLING PRECAUTIONS

**Hind Pentro Hard** is non-toxic, non-combustible 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.

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### 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.

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## HINDCON CHEMICALS LIMITED

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