

ChemHardener

Cementitious Non-Metallic Floor Hardener

Customized Construction Chemicals

Description ChemHardener provide a highly abrasion resistant surface to concrete floors which ensures that the hardwearing surface bonds monolithically to the base concrete. Sometimes the best concreted industrial floors lose their looks because of surface weakness and dusting. A small care such as use of a dust proofer and floor hardener on new floor. The solution penetrates the concrete and reacts with the cementitious components leaving a permanent, hard wearing and dust free surface.

Characteristic Parameters:-

It conforms to specification prescribed in IS: 4031-1988, IS: 1237-2012, BS: 1881-1983

Test Parameters	Specification
Appearance	Gray Colour
Abrasion Resistance % (Compare to Reference Sample)	250-300 %
Compressive strength	50 N/mm ² (Minimum)
Consumption	For Light duty 3.5 to 4.0 kg/m ² For Medium duty 4.5 to 5.0 kg/m ² For Heavy duty 5.5 to 6.0 kg/m ²

Features/Advantages

- ❖ Both new as well as old floors can be treated with ChemHardener.
- ❖ ChemHardener makes the surface strong and durable.
- ❖ ChemHardener makes the surface dust proof.
- ❖ There is no need for surface preparation and curing.
- ❖ Easy to apply, no special equipment or skills required.

Applications

- ❖ Factory Floors.
- ❖ Garages.
- ❖ Industrial units.
- ❖ Warehouses and transit sheds.
- ❖ Typical applications include industrial floors, light engineering works, warehouses, animal feed and milk parlors, abattoirs, car parks, dams, reservoirs, tanks, silos and flues.

Application Methodology

- ❖ ChemHardener should always remain dry until it is being used with the cement floor concrete. Fresh ordinary Portland cement, conforming to Indian Standard Specification should always be used.
- ❖ Even blended cements can also be used, provided the quality of cement is good. The aggregate to be used as the floor topping, should be clean, angular crushed granite or quartzite stone chips of size 6mm down.
- ❖ The water cement ratio of the concrete should be as low as possible and preferably less than 0.45 to achieve this, concrete plasticizer is recommended as an admixture to the concrete, as this will provide.
- ❖ The much needed workability required for laying the top surface

For Laying on a New Floor

- ❖ After laying a concrete (Minimum M25 grade) base of 100mm to 150mm, a separate approximately 12-18 mm thickness layer consists of ChemHardener, Cement, other Aggregate and Water of shall be laid, levelled and finished over the base concrete.
- ❖ The topping should always be laid over the base concrete or a separate granolithic surface, when it remains wet.
- ❖ When the initial set of the floor topping takes place, the surface is to be trowelled off to a polished smooth finish.

For Topping on Old Floor

- ❖ Remove the old concrete surface to a depth of at least 5mm to 7mm and clear all loose particles and dust.
- ❖ In case of an oil soaked surface, the chipping should be done up to the oil contamination level, till clean and sound concrete is found.
- ❖ This clean surface is to be thoroughly soaked with water for at least 12 - 15 hours prior to laying the concrete base and floor topping.
- ❖ No surface water should remain before the application of the cement slurry over the surface. Apply the cement-ChemProof slurry over the entire surface and then lay the ordinary granolithic layer of 13 mm to 19 mm thickness over this using ChemHardener mix, to the required thickness.
- ❖ When this granolithic layer is still wet, trowel off to a smooth, polished finish.

Curing: - Curing is essential part of ChemHardener flooring system. The effective curing method is to apply ChemCure RB/WB. Other curing methods such as covering with plastic sheet, wet clothes or pond curing is also accepted and shall be continued at 7days.

Cleaning of Tools: - Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

Packing:- 25 kg. Moisture proof bag.

Shelf Life and Storage Condition:-Shelf life is 12 months from the date of manufacturing when stored with unopened sealed moisture proof bags. If stored in high temperature and high humidity place, the shelf life may be reduced.

Our Other Products Ranges Are:-

- Concrete Admixtures
- Sealants & Primer
- Industrial Floorings
- Concrete Repair Products
- Mould Release Agents
- Adhesive for Tiles, Marbles and Stones
- Concrete Curing Compounds
- Waterproofing Chemicals
- Industrial Grouts
- Concrete Hardeners
- Concrete Bonding Agents
- Joint Filler Grouts for Tiles, Marbles and Stones

Important Note:- Offshore Chemox products are confirming standard manufacturing specification and procedure. Offshore Chemox products are given in good faith based on Offshore Chemox current knowledge and experience of the products when properly stored, handled and applied under normal conditions. Offshore Chemox product are confident against defective materials and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Offshore Chemox endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

OFFSHORE CHEMOX

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