



HIND ERS 21PC

PRODUCT DATA SHEET

TWO COMPONENT EPOXY BASED ABRASION AND CORROSION RESISTANT PROTECTIVE COATING

DESCRIPTION

Hind ERS 21 PC is a two component protective coating based on epoxy resin system comprising of Component A (Resin) and Component B (Hardener). It is designed specially to protect steel, concrete structures and all other metallic substrates influenced by seawater splash, severe saline and highly corrosive environment. It is an excellent abrasion cum protective coating system.

USES

HIND ERS 21 PC is recommended as a coating for protection against abrasion and corrosion protection for Tanks & Reservoirs (Concrete & Steel), Pipelines (Concrete & Steel), Chemical Plants, Dockyards, Water Treatment Plants, Concrete & Steel surfaces in sewage treatment plant, Crude oil storage tanks, Underground Structures (Foundation walls & sump pits), Paper Mills, Dams, Barrages gates, Hydel equipments and Penstocks.

ADVANTAGES

- Highly Corrosion & Abrasion Resistant in saline and sea-water environment.
- Cured material turns to a hard coating moderately flexible in nature.
- Like all epoxy resin system it has high chemical resistance.
- Reduce thermal expansion co efficient thus improves thermal conductivity.

SURFACE PREPARATION

Concrete

Before application surface preparation is important, surface should be cleaned, dry, free from loose particles, oil, grease or other foreign materials by water jetting or any other suitable methods. Compressed air is used to remove the dust completely. The coating to be done on absolutely dry surface free from any entrapped moisture in the concrete.

Steel

Steel surface over which coating is to be done should be thoroughly sand blasted or mechanically cleaned to a shining finish. If prepared surface gets contaminated, it has to be re-blasted to get a absolutely clean surface and coating applied.

Mixing

The coating system of **HIND ERS 21PC** is thixotropic in nature, it has to be properly stirred before application. Mix 1 part by wt of component B with 2 parts by wt of component A i.e. Mixing Ratio = Component A: Component B = 2:1 (by wt). Mix at least 5 minutes to uniform color without any streak using a drill and paddle mixed (speed 200 RPM) so as to avoid any entrapped air. Comp B is to be poured in Comp A and stirred gently.

APPLICATION

HIND ERS 21PC can be applied by brush or roller. Normally two coats are recommended. The first coat to be allowed to air cure to become tack free before the second coat is applied.

Cleaning: Clean all tools & equipment immediately after use with, Xylene, Toluene or suitable solvent.

PROPERTIES

Aspect	Light amber
Mixed ratio	Comp A: Comp B = 2:1 (by wt)
Density	1185 ± 20 Kg/ m ³
Pot life	40 minutes at 27 °C
Bond Strength (Old concrete to New concrete)	13 N/mm ² in 7 days
Coverage (per coat)	Concrete: 450 gm ± 50 gm/M ² Steel: : 400 gm ± 50 gm/M ²
Interval of Coating	Minimum 20 hrs
Curing at 30 °C	Full Cure 7 days
Chemical resistance	Chemically unaffected by wide range of Chemicals, Salts, Acids, Oils and Sea Water etc.

PACKING

6, 12 Kg Kit or as required

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 2⁰ C (Min.) and 35⁰ C (Max.).

HANDLING PRECAUTION

HIND ERS 21PC is non-toxic. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately 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 will be supplied on request.

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