

# NEROLAC PERMA

## MASTERCOAT HD

A non-toxic, solvent free, high build protective industrial epoxy resin coating

### DESCRIPTION

Perma Master Coat-HD is a high build, heavy duty industrial coating based on epoxy resin and hardener. Master Coat – HD is especially developed to take the loads that are expected on the floors and walls, metal and concrete structures of a factory. The product is supplied as a two-pack system comprising of pigmented base and hardener. It requires only on-site mixing to produce an easily-applied decorative and chemical-resistant finish. Master Coat- HD coating can easily be built up to a higher thickness by subsequent coats.

### PRIMARY USES

- For the external and internal protection of concrete or metal tanks containing drinking water, oils, consumable liquids etc.
- Best used as floor and wall coating in oil refineries, plating shops, paper mills, power stations-garages, hospitals operation theatres, sugar factories, hatcheries, process plants, engineering workshops, food processing plants etc.
- Used as a protective and decorative coating in laboratories, abattoirs etc.

### GUIDE TO APPLICATION

- Ensure adequate ventilation during application.
- Master Coat-HD Coatings can be applied either using lamb's wool rollers or short-haired, stiff-bristled nylon brushes.
- The second coat is applied on the second day of the first coat or at an interval of atleast eight hours.

### ADVANTAGES



Durable.



Solvent-free.



Non-toxic.



High build coating.



Waterproof.



Chemical-resistant.



Easily applied by brush or roller.



Food grade hence can be used as a coating in concrete water tank.

### CHEMICAL RESISTANCE

Perma Master Coat-HD is resistant to the following typically encountered chemicals: Formaldehyde 40% solution, Sulphuric Acid 30% solution, Wine, Acetic Acid 5% solution, Diesel-Oil, Hydrochloric Acid 50% solution, Nitric Acid 10% solution and Vegetable oils. Master Coat-HD Coatings may slightly change in color in certain chemical environments but the chemical resistance of the Perma Master Coat-HD film remains unchanged.

### OVER COATING

Where areas need to be over coated due to damage etc., it is important that the areas to be treated are well abraded using stiff rotary wire brush or coarse sand paper to give adequate key. Completely strip off any unsound coating and proceed with over coating as for new work.

## DIRECTIONS FOR USE

### Surface Preparation:

The substrate should be a smooth or semi-smooth sound surface such as concrete or metal. It is most important to ensure that thorough surface preparation is undertaken prior to application of Master Coat-HD Coating.

### Concrete:

Ensure concrete is free from excessive laitance, grease, oil, curing compound etc. Ensure concrete is sound. Cut back wherever necessary and make good using suitable cementitious or epoxy repair system. Ensure all blow holes and surface imperfections are made good prior to application of the coating. Wire brushing followed by degreasing, acid etching or grit blasting may be necessary to remove laitance. Ensure concrete is at least 28 days old.

### Steel

All previous surface treatments should be removed taking the surface back to base metal. The base metal should be abraded and preferably shot blasted. Cleaning with a solvent or a strong detergent is advisable to ensure surface is free from grease etc. Do not allow surface to re-oxidise before application of Master Coat-HD.

### Mixing:

Master Coat-HD is supplied in two pre-weighted components, Base and Reactor, No additions or omissions are required. Add reactor contents to the base components and stir thoroughly for 3-4 minutes using a slow speed hand drill-fitted with a paddle. Mix until a uniform colour is achieved. Apply in two coats.

## EQUIPMENT CARE

All equipment must be cleaned immediately after use with cleaning solvents. Similar procedures should be adopted for break periods exceeding fifteen minutes.

## PROPERTIES

Density	:	1500 kg/m <sup>3</sup>
Bond Strength	:	In excess of cohesive strength of mortar
Pot Life	:	45 min at 35°C
Tack Free Time	:	6 hours at 35°C
Initial/Full Cure	:	24 hrs/7 days
Specific Gravity	:	1.38 at 20°C
Dried Film thickness	:	200 microns per coat
Appearance	:	Smooth and glossy
Chemical Resistance	:	Excellent

## COVERAGE

1 kg of Perma Bitu Coat covers an area of 3.25 to 4.18 m<sup>2</sup> per coat depending upon the surface.

## HEALTH AND SAFETY

Epoxy products generally cause irritation to the skin. Use of hand gloves by the workers is advised. Upon completion of day's work all the packing material should be burnt and buried.

## PACKING

Perma Master Coat-HD is available as a two component product in 1 kg and in bulk pack of 40 kg.

## SHELF LIFE

Perma Master Coat-HD has a shelf life of 12 months from the date of manufacture.

## DISCLAIMER

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