

General Description:

HYDROPOX is a two-component water-based epoxy coating that exhibits excellent characteristics comparable to solvent based products. It is developed with good chemical, abrasion resistance, good adhesion properties and resistance against bacterial and fungal growth on the surface.

Major Uses:

Hydropox is recommended to provide a dust-proof and easily cleaned surface which is resistant to most oils and liquids. It is suitable for use on walls and floors in warehouses, garage, light industrial and food processing areas of pedestrian and light vehicular traffic. It can also be used as protective coat for floor decorative coating for shops and residences (refer to separate data sheet).

Advantages:

- Durable - good resistance to abrasion.
- High chemical resistance.
- Hard wearing.
- Easy to clean – seamless.
- Good flexibility
- Low VOC

Characteristics and Physical Properties:

Colour	Clear	Pigmented
Density (kg/l)	1.05	1.25
Viscosity (cps)	1000	3700
Solid content (w)	57%	65%
Application method	Brush, roller	
Application condition		
Air temperature	10 – 35°C	
Relative humidity	85% max	
Drying time		
Pot life	1 - 2 hrs	
Touch dry	5 - 8 hrs	
Overcoating	7 - 10 hrs	
Full cure	5 - 7 days	
Coverage	8 - 9 m ² /l	
DFT (2 coats)	100µm	

Instruction:

Respect carefully the mixing ratio: Any variation in the mixing could irreparably undermine the characteristics of the final finished product. Avoid excessive turbulence that will cause dangerous air inclusions. It is possible to mix/distribute by hand with spatula, notched trowel, brush, roller. Do not thin with solvents or other diluents.

Surface Preparation:

It is essential that Hydropox is applied to sound, clean, dry surface in order to achieve maximum adhesion between the coating and substrate.

Due to a relatively thin coating, the substrate must be fairly smooth. Any surface irregularities may show causing excessive wear on high spots and changing the perceived colour of the coating

New Concrete

New concrete should be cured for at least 28 days. Removal of laitance by light grit-blasting is preferable but, where this is not feasible, apply one (1) coat of multi-etch solution, followed by thorough rinsing with water and complete drying. Dust and other contaminants should then be removed prior to the application of Hydropox.

Old Concrete

A sound, clean substrate is essential to achieve maximum adhesion. Old and existing paint should be removed either by paint stripper or light sanding. Oil and grease penetration should be removed with suitable degreaser followed by hot compressed air treatment to assure a trouble-free bond to the substrate. A practical test should be made to determine if the concrete has an appropriate vapor barrier, that may cause an eventual hydrostatic pressure that may later cause debonding.

Hydropox is a self-priming material, however, if opted to be primed, use suitable water-based Epoxy Sealer or Primer.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

MAS PAINTS & CHEMICAL INDUSTRY

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Application:

- Do not apply to wet surfaces or with temperature lower than the minimal application temperature. Areas must be first degreased, chemically and mechanically treated.
- The individual components should be thoroughly stirred. Mix the pre-weigh Resin (Part A) and Hardener (Part B) for at least 3 minutes until homogenous. This material is an emulsion product and should be mixed well before using.
- HYDROPOX can be applied by suitable brush, roller for a minimum thickness of 50 microns per coat. Maintain the required application temperature and relative humidity to avoid any physical defects. Do not try to continue the application when the viscosity reached its pot life that may result to an adverse effect.
- The second coat may be applied as soon as the first coat has initially dried (approximately 7-10 hours). The time will be dependent on the type of surface and the ambient conditions.
- Good drying conditions are required to allow complete evaporation of the water as the resin cures. Adequate ventilation and air movement is necessary.
- If a slip resistant finish is required, the second coat shall be applied thicker than the standard application. It should be then broadcasted with suitable aggregates in a light random dressing to provide a less dense finish. When the coating has reached initial cure (24 hours) excess aggregates should be removed by vacuum cleaner from the surface.
- Topcoat can now be applied and ensure that the aggregates are completely coated.

Storage:

Lifetime of products is referred to materials stored in sealed containers in dry rooms, at recommended temperatures and protected from direct sunlight. The expiry date is printed on the packaging. The moisture and/or storage in humid conditions may affect the characteristics of the components. At low temperatures (5-10°C) the products may crystallize.

Limitations:

- Hydropox should not be applied on to surfaces known to suffer from rising damp or having a relative humidity more than the allowable limit.
- Substrate temperature must be 5°C above dew point.
- The durability in foot traffic areas is reduced in areas of very heavy traffic.
- Product will tend to yellow in the presence of UV light.
- Improper mixing or too thick of an application may result in product failure.

Cleaning of Tools:

All tools should be cleaned with clean water immediately after use or Epoxy Thinner # 135 as soon as possible.

Physiological Hazards:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Some people are sensitive to resins, hardeners and solvents. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapour. If swallowed, seek medical attention immediately. Do not induce vomiting.

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