



robin
La qualité en peinture

HYDROPOX

Two-part epoxy coating in aqueous phase

PURPOSE

HYDROPOX is high mechanical and chemical resistance paint used indoors in the following cases:

- protection and decoration of concrete outside walls like tunnels, covered trenches, hoppers and their associated components (technical areas, safety niches, pipes, ducts, etc.).
- Wine cellars
- Production areas of the food industry
- Industrial floors

- **REMARK:** The system can be non-slip

For this use the ANTI SLIP L-25084 additive

1.875L CA + 0.200 Kg ANTI SLIP L-25084 additive

7.500L CA+ 0.800 Kg ANTI SLIP L-25084 additive

Gently add the powder to the paint (CA) by mixing for a few minutes.

Then, add the corresponding HYDROPOX L11399 hardener (CB).

For the non-slip system, we recommend:

* 1st layer of HYDROPOX adhesive without ANTI SLIP L-25084 additive,

* 2nd coat with the ANTI SLIP L-25084 additive.

* Finish with 1 coat without ANTI SLIP additive to have better paint that can be washed better.

SUPPORTS

- Concrete and coated with cement
- Metal components protected against corrosion (with HYDROPRIMER or HYDRO RAL 7040 L-20069 epoxy primer)
- Direct application on galvanized steel and aluminium
- Old compatible paint in good condition (prior test)
- Other supports: consult our technical department.

GENERAL CHARACTERISTICS

- Product in aqueous phase: odourless, easy and safe to use, respect for the environment (VOC: < 8 g/litre)
- Good chemical inertness to grease, oil, hydrocarbons, diluted acids and bases, etc.
- High hardness for good resistance to abrasion and usual detergents
- Effective and durable protection against the corrosive atmosphere of tunnels (SO₂, CO₂, road salt, water)
- Filling and anti-drip paint
- Can be applied on a damp vertical support (but not dripping)
- HYDROPOX meets standards:
Gloss ISO 2813
Reflectivity ISO 2814
Resistance to chemical agents ISO 2812
Adhesion ISO 4624
Water vapour permeability ISO 7783-1
Water permeability ISO 1062-3
Resistance to anti-snow salt EN 13687-1
Permeability to CO₂ EN 1062-6.

Peintures ROBIN S.A.

31 rue de la Gare // L-8705 Useldange

T (+352) 23 63 23-1 // F (+352) 23 63 23-58

peintures@robin.lu // www.robin.lu

7 rue Jean Fischbach - Z.a. am Bann // L-3372 Leudelange

T (+352) 49 31 61-1 // F (+352) 49 31 61-880

peintures.standox@robin.lu // www.robin.lu

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IDENTIFICATION CHARACTERISTICS

Classification:	AFNOR NF T36-005 Family 1 Class 6b
Appearance of the dry film:	Semi-gloss
Dry extract in weight:	68 ± 2%
Density:	1.5 ± 0.1 according to the colours
Viscosity at 20°C:	Thixotropic
Drying at 20°C, 60% RH:	Dust free: 3 hours
and 40 µm secs:	Touch-dry: 8 Hours / Hard and complete resistance: 8 days
Theoretical yield:	± 6-8 m ² /L on smooth support and without loss
	Time between coats: 24 A 72 H (beyond, shattering or wiping with solvent)
	Drying is delayed by cold and wet weather

USE

Pour ingredient B (hardener) into ingredient A (coloured base).
Proportion CA/CB: 3/1 in volume and 4/1 in weight.
Mix well.

Dilute to viscosity of use depending on the equipment used.
Let the mixture ripen for 10 minutes.

Service life of the mixture: approximately 2 hours (at 20°C)
We recommend that in all cases to make a prior adhesion test.

PREPARING THE SUPPORT

The support must be healthy and have undergone a suitable surface preparation, to get rid of any not or little adherent part. It should be free of traces of oil, grease, laitance, curing product and all substances likely to compromise adhesion.

Concrete and derivatives:

New concretes must have a minimum drying time of 28 days.

Careful cleaning by high pressure washing or sandblasting if necessary.

Alkaline leaching of old paint in good condition.

Resurfacing, repairs to splintering concrete, resealing of the cracks with epoxy mortar without solvent: minimum drying time of 24 hours.

The porosity of the floor conditions the adhesion. Non-absorbent surfaces like strongly dosed cement or glass surfaces needing to be frosted by mechanical action (shot blasting and grinding) or chemical action by pickling using a 10% solution of hydrochloric acid in water.

One can easily check the good floor porosity by pouring a small amount of water on the dust-free floor. If water penetrates, a dark stain is formed: the floor is deemed as sufficiently adsorbent.

If the water "pearls" and does not wet the concrete, it is necessary to roughen it to obtain good adhesion.

Metals:

The surfaces must be thoroughly cleaned of all dirt, old non-adherent paint, traces of grease, by scraping, brushing, dusting and degreasing.

Rust, scale and old deteriorated paint must be eliminated preferably by shot peening or sandblasting to a degree of care of SA 2 minimum and if sandblasting is not possible, do it by scraping - brushing to a degree of care St 3.

On ferrous metals: application of a layer of HYDROPRIMER or HYDRO RAL 7040 L-20069 epoxy primer

On galvanized steel and aluminium: direct application of HYDROPOX

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	Equipment	Dilution
Application	Brush, roller:	1st adhesion coat 10-15% with water 2nd coat, 3rd coat: 5-10% with water PAINT with anti-slip additive: 10% dilution with water
	Airless gun:	0 to 5% with water according to the climatic and application conditions

CLEANING THE EQUIPMENT Water directly after use

RECOMMENDATIONS Ambient application conditions:
 * The ambient and support temperature over 10°C, and under 35°C
 * Non-condensing support: the temperature of the support must be at least 3°C higher than the dew point.
 * Relative humidity less than 90%

COLOURS RAL, Robin MIX card
 Exists as Hydropox varnish. Transparent satin appearance.

PACKAGING Ingredient A: Coloured base: 16 kg, 7.5 litres, 1.875 litres
 Ingredient B: epoxy hardener: 4 kg, 2.5 litres, 0.625 litres
 Hydropox varnish ingredient A: 1.38 litres
 Hydropox varnish ingredient B: 625 ml

CONSERVATION 1 year in original closed and non-opened cans.
 Store in a well ventilated area at a temperature between + 5 and + 35°C.

HEALTH AND SAFETY TRANSPORT See the corresponding safety data sheet.

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Procedure for the application of HYDROPOX 2-part paint on a non-painted concrete floor or a painted concrete floor.

To have good adhesion of the paint on a non-painted or painted concrete floor, it is necessary to wash it and remove any deposits of dirt and grease.

1) On non-painted concrete

a) Floor washing:

Dilute 10% **hydrochloric acid** in a litre of water, then wet the floor with a brush.
Rub in the product thoroughly with the brush, then scrape off the product and rinse the floor with clean water.

Warning: Wait until the floor is completely dry before painting.

B) First adhesion coat of Hydropox:

Dilute the **HYDROPOX 2 -part** paint with 10% water and then paint with a roller.
Drying time between the two coats: 10 to 12 hours, depending on the outside temperature.

c) Finishing:

Application of two coats of HYDROPOX 2-part non-diluted by observing the drying time. Drying time between the two coats: 10 to 12 hours, depending on the outside temperature. **Cleaning the equipment with water**

2) On painted concrete:

a) Floor washing:

Spray **RobinClean** onto the floor, then rub with a brush or with a Scotch Brite sponge, then dry and clean with blue Wypall paper.

Warning: Wait until the floor is completely dry before painting.

B) First adhesion coat:

Dilute the **HYDROPOX 2 -part** paint with 5 % water and then paint with a roller. Drying time between the two coats: 10 to 12 hours, depending on the outside temperature.

c) Finishing:

Application of 1 to 2 coats of HYDROPOX 2-part non-diluted by observing the drying time. Drying time between the two coats: 10 to 12 hours, depending on the outside temperature. **Cleaning the equipment with water.**

VOC: limit EU values for this product (cat IIA / d) are 140 g / l (2007) and 140 g / l (2010). The current value is 8 g / l.

NB: These instructions supersede any previous instructions for the same product. It is the responsibility of our customers to check with our department to know whether it has been modified by a more recent edition. The information contained in these instructions is not legally binding, and they cannot substitute for a description that is appropriate to the nature and condition of the surface to be painted.