



Technical data sheet

PROTECTION MADE EASY

Aquapox



Description and destination of the product

Aquapox is a two-pack water thinnable epoxy paint, used for inside applications as finishing coat on:

1. Mineral surfaces (concrete, brick, masonry,....)
2. Ferrous and non-ferrous metal treated with **Aquabond Brush/Spray** as primer.

Aquapox systems are characterized by:

- a high saponification resistance
- very good elastic properties
- bacteriostatic and fungistatic characteristics
- a very good chemical resistance

Aquapox has been tested and approved by the Belgian Packaging Institute according to the NBN S29-002 norm (use in environments where food is handled, is therefore possible!)

Application areas: hospitals, public buildings, laboratories, industrial kitchens, workshops, dairy farms, showrooms, parking garages, food industries, stables and pharmaceutical industries.

Type of binder

Resin: aqueous emulsion of a flexible epoxy resin of the type Bisphenol A

Hardener: modified aliphatic polyamine.

Type of pigment

Coloured pigments and fillers

Colour

Thanks to the Color Dispensing system more than 8.000 colours are available such as NCS, RAL, British Standard, TVT, etc...

Gloss

Satin

Technical data

- **Density:** 1.35 (0.15) g/cm³ (depending on the colour)
 - **Solids content:** 50 (± 3)% by volume
63 (± 3)% by weight
 - **Mixing ratio:** 63 parts in weight of component A
37 parts in weight of component B
Mixing errors result in deviating properties and differences in gloss. Therefore we advise to mix the complete contents of base paint and hardener.
 - **Potlife:** 2.5 hours at 23°C
 - **Drying times:**
(22°C – 40 micron) dustfree : 4 hours
tackfree : 6 hours
dry : 10 hours
 - **VOC:** 24 g/L
Exposure to temperatures higher than 50°C results in accelerated yellowing of the Aquapox.
After application of the last layer, the coating must dry during 7 days at 20°C before charging (cleaning, ...)
- Remark: the temperature during application and during the first 7 days of drying must be minimum 10°C and preferably 15 to 25°C in order to obtain the optimal properties of the paint film.
- **Theoretical yield:** ± 12 m²/L - layer thickness 40 micron
The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the losses by airless application.

Surface preparation

Mineral surfaces

The substrate must be fully cured and sufficiently dry (less than 5% humidity at the surface). In normal circumstances, the minimum waiting time for painting fresh concrete is 6 weeks.

The surface should always be clean. Dust, loose particles and other contaminants can be removed by means of high pressure water jet. Fungi, algae and mosses are to be removed with **Fungex** (use : see technical data sheet) On non coated or chalking substrates, the use of **Aquafix** is always recommended (use : see technical data sheet). In order to avoid problems of interlayer adherence, it is advisable to apply the following coat within 3 days. If this isn't possible, the previous coat has to be roughened up and cleaned before being painted.

Ferrous and non-ferrous metals

The surface to be painted must be free of rust, grease, oil, dust, salts or other contaminants that can hamper a good adhesion. Aged epoxy or polyurethane surfaces must be roughened up. On iron, galvanized steel and aluminium a layer of **Aquabond Brush/Spray** must be applied (use: see technical data sheet).

In order to avoid problems of interlayer adherence, it is recommended to apply the following coat within 3 days. If this isn't possible, the previous coat has to be roughened up and cleaned before being painted.

Use

Mixing ratio for **Aquapox** white and base: 63 parts in weight of component A
 37 parts in weight of component B

Immediately before use, mix the two components and stir thoroughly.

Apply by brush, roller or spray.

Aquapox can be applied by pneumatic or airless pistol. The product has to be diluted with water.

	% Water	Pressure (bar)	Nozzle
Pneumatic gun	5-10%	3-5 bar	1.2-1.6 mm
Airless gun	0-5%	50-150 bar	0.011-0.018 inch

A first layer of **Aquapox** is diluted with maximum 5% water.

A second layer can be applied, undiluted.

Clean the tools immediately after use with tap water.

Application conditions

The temperature during application and drying has to be above 10°C and the relative humidity below 80%. The temperature of the surface must be minimum 3°C above the dew point.

Storage stability

Minimum 1.5 years in the original and closed package, stored in an environment with temperatures between 5°C and 40°C.

Safety measure

For detailed information about safety measures, personal protection and transport data of this product, we refer to the safety data sheet.

The last update of our technical data sheets is always available at our website: www.libertpaints.be

Disclaimer

The information given in this technical data sheet is only a general product description, based on our experiences and tests and therefore does not represent a specific practical case. Consequently Libert Paints doesn't guarantee the functionality or result and takes no responsibility in this respect.

We advise our clients to test the applicability of the product to the nature and the state of the surfaces and to carry out the necessary representative tests in case of doubt. Please contact our R&D department as the occasion arises.

Attention: our clients should verify whether the present technical data sheet hasn't been replaced by a more recent version.