

# NOVEPOX aqua



## TECHNICAL DATA SHEET

### Description

**NOVEPOX AQUA** is a two-component, water-based epoxy paint for the protection of concrete or metal surfaces. It is characterized by excellent adhesion, abrasion and etching resistance, resistance to water, mild chemicals and is used on interior industrial floors and walls, car parks, workshops, warehouses and generally due to its low odour in areas where the use of solvent products is avoided.

### Recommended uses

Applied on concrete surfaces such as concrete, plaster, cement mortar, cement board.

### Technical characteristics

**Resin:** (A) Polyamide resin (B) Epoxy resin

**Density (A+B):** 1.42±0.04 gr/ml

**Production viscosity: (A)** 105 ± 5 KU **(B)** 14 ± 2 P

**Year's Viscosity (A+B):** 125 ± 15 KU

**Solids b.w. (A+B):** 67,5±2,5%

**Solids b.v. (A+B)::** 51±2,5%

**pH:** 10,0±1,0

(ΕΛΟΤ EN ISO 2811, 25°C)

(ASTM D562/25°C)

ISO 2884/20°C

(ΕΛΟΤ EN ISO 3251)

(ΕΛΟΤ EN ISO 3233)

(ISO 976)

**VOC (Volatile Organic Compounds): NOVEPOX AQUA** belongs to the category A/j WB (Two-pack reactive performance coatings) EU Limit Value: 140g/l. The ready to use product (5A+1B) contains max. 50g/l.

### Shades

White (Ral 9010), Light grey (Ral 7035).

### Properties

**Gloss 60° [1 day]:** 70±10

**Hardness (König): [1/7 days]:** 55±10 / 110±20 sec

**Bend test (Mandrel):** 6±2mm OK

**Adhesion (Pull Off on cement):** 5,0 ± 1,0 N/mm<sup>2</sup>

(3 coats total DFT 150µm)

**Adhesion (Cross cut on metal):** 0-1

**(Impact test) in/out:** 12±2/0-2 inch-pounds

**Scratch test:** >20N

**Taber Abrasion 100±10 µm:**

Loss of weight (CS 17x1kgx1000 cycles): 70±10 mg

Index of friction (CS 17x1kgx1000 cycles): 70±10 mg

**Static coefficient of friction:** 0,7

**Water resistance / Alkali (24h):** O.K/O.K

**Water transmission rate (permeability):** (W<sub>24</sub>) <0,1Kg(m<sup>2</sup>.h<sup>0.5</sup>) (DFT 150µm) (1 coat as primer + 2 coats as final paint)

(ΕΛΟΤ EN ISO 2813)

(ΕΛΟΤ EN ISO 1522)

(ΕΛΟΤ EN ISO 1519)

(ΕΛΟΤ EN ISO 4624)

(ΕΛΟΤ EN ISO 2409)

(ΕΛΟΤ EN ISO 6272)

(ΕΛΟΤ EN ISO 1518)

(ASTM D 4060)

(ASTM D 1894)

(ΕΛΟΤ EN ISO 2812)

(EN 1062)

### Spreading rate

**Dry film thickness per coat:** 50±5 µm.

**Spreading rate:** 7,2±1 m<sup>2</sup>/Kg per coat.

## Application instructions

The surface must be thoroughly scrubbed to remove loose materials and irregularities, be dry and clean from dust, oil and rust. Any cracks are covered with **ARMOPLAST** epoxy putty. Before application, good stirring of component A is required, followed by the addition of component B slowly and under continuous stirring. It is recommended that the mixing of the two components be carried out mechanically (low speed stirrer). **NOVEPOX AQUA** can be used as a primer itself. New metal surfaces can be primed with the anticorrosive primer **NOVEPOX PRIMER 951**. As a final paint **NOVEPOX AQUA** is applied in 2 coats. In case, the next coat is applied later than 48 hours, it is recommended to sandpaper the surface.

**Mixing ratio:** 5A:1B b.w.

**Pot life:** > 6 h (10°C), 2-3 h (20°C), ½-1 h (30°C) (EAOT EN ISO 9514).

**Application method:** Brush, roller, air or airless spray.

**Diluent:** Water.

**Thinning: As primer:** Brush, roller or airless spray up to 10% b.w., air up to 20% b.w.

**First coat:** Brush, roller or airless spray either undiluted or diluted up to 5% b.w, air up to 10% b.w.

**Second coat:** Brush, roller or airless spray either undiluted or diluted up to 2,5% b.w., air up to 5% b.w.

*For spraying: Nozzle size 1,5-1,8 mm, air pressure 2-2,5 bar.*

*For airless spray: Nozzle 409, air pressure 150-160 bar, filter white 80.*

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## Drying time

**Set-to-touch:** 50±10 λεπτά (ASTM D 1640).

**Dry through:** 7,5±1 ώρα.

**Recoating time:** after 24 h.

**Complete hardening:** After 7 days.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity, while in opposite conditions they are reduced.

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## Coating system

No metal surfaces are primed with **NOVEPOX AQUA itself** (diluted with water) or with **NOVEPOX PRIMER 960**. On metallic surfaces it is recommended to apply as a primer the anti-corrosive **NOVEPOX PRIMER 951**.

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## Packaging

**Component A** is available in **10Kg** and **2,5Kg** cans. **Component B** is available in **2Kg** and **0,5Kg** cans, in the predetermined proportions of their mixture, by weight.

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## Storage

1 year at least for A and B, provided the containers are kept closed and under normal storage conditions (shade and temperature 5°C-30°C).

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## Health and safety

Please refer to the labeling on the can. In case more information is needed refer to the Material Safety Data Sheet.

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## Notes

- It is recommended to avoid the application of the product at temperatures below 10°C, greater than 30°C and relative humidity higher than 70%.
- If painted **on exterior surfaces "chalking" appears.**
- Applied in food storage or processing areas but the painted surface must not come into direct contact with food.
- In applications where a **more non-slip surface is desired, a quartz sand may be applied** on the last coat, either at the same time of the application on large surfaces, or as soon as possible after painting.

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This issue replaces all others.*

