NOVEPOX

TECHNICAL DATA SHEET

Description of the product

NOVEPOX is a 2 component epoxy based paint. It protects and decorates surfaces that are exposed to extreme conditions (industrial environment, constant contact with liquids). It is ideal for painting swimming pools. It has very good adhesion on plastic surfaces and is suitable for industrial floors.

Recommended uses

It is applied on metal and cement surfaces in industrial environment. It is used for painting swimming pools and tanks of sea water. It is also suitable for plastic and wooden surfaces and industrial floors of light circulation.

Technical characteristics

Resin: Component A: Epoxy resin
Component B: Polyamide resin

Density (A+B): 1.46±0.04 gr/ml, depending on the shade	(EN ISO 2811.01, 20°C)
Production viscosity (A+B): 7±2 poise	(ISO 2884.2, 20°C)
Solids b.w. (A+B): 76.5±4%, depending on the shade	(EN ISO 3251)
Solids b.v. (A+B): 51.5±4.5%, depending on the shade	(ISO 3233)
Flash point: A: 25±2°C, B: 21±2°C	(EN ISO 1523)

VOC (Volatile Organic Compounds): NOVEPOX belongs to the category A/j SB (two-pack reactive performance coatings). EU Limit Value: 500 g/l. The ready to use product contains max.499 g/l.

Shades

Available in white (No 960), light blue (No 936), grey (No 943), red-brown (No 951).

Properties

Gloss 60°/20°: > 95/90±5	(EN ISO 2813)
Adhesion (Cross cut on metal): 0-1	(EN ISO 2409)
Adhesion (Cross cut on metal): 0 *As a system:* 1 coat Nov. Primer 951+1 coat Novepox	(EN ISO 2409)
Adhesion (Pull Off on cement): 2.5±0.5 Nt/mm^2 (A) *As a system:* 1 coat Nov. Primer 960+1 coat Novepox	(EN ISO 4624)
Hardness (König): 100±15 sec, after 7 days	(EN ISO 1522)
Impact test: in/out 22-30/4-10 inch/pounds	(EN ISO 6272)
Impact test: in/out 6-14/0-12 inch/pounds *As a system:* 1 coat Nov. Primer 951+1 coat Novepox	(EN ISO 6272)
Taber Abrasion (Novepox/100 μm)**:** Loss of weight CS17 x 1Kg x 1000 cycles: 90±10 mg Index of friction CS17 x 1Kg x 1000 cycles: 90±10 mg	(ASTM D 4060)
Bend test (Mandrel): 3 mm OK	(EN ISO 1519)
Wet Scrub Resistance: No change is noted on the film As a system: 1 coat Novepox Primer 960+1 coat Novepox	(EN ISO 11998)
Water transmission rate (permeability): W_{24} =0 Kg/(m^2.h^{0,5}) *As a system: 1 coat* Novepox Primer 960+1 coat Novepox	(EN 1062.3)
Resistance to Salt Spray: Excellent protection for at least 500 hours *As a system:* 1 coat Nov. Primer 951+1 coat Novepox	(EN ISO 7253)

Spreading rate

Dry film thickness per coat: 50±5 μm.
Spreading rate: 7.5±1 m²/Kg, per coat.

Application instructions

Surfaces are dry and cleaned from oil, dust, and flaking parts are removed. The surfaces are then sandpapered. Any cracks are filled with the epoxy putty **ARMOPLAST**. The surface is further treated with **NOVEPOX PRIMER 960** (for cement, plastic or wood surfaces) or with **NOVEPOX PRIMER 951** (for metal surfaces).
NOVEPOX is applied in 1–2 coats. The second and/or the third coat are applied after the previous coat has completely dried. In case, the next coat is applied later than 24 hours, it is recommended to sandpaper the surface. During the application, good ventilation is required.
Mixing ratio: 4A:1B b.w.
Pot life: > 8 hours (10°C), ≥ 8 hours (20°C), 5**-**6 hours (30°C) (EN ISO 9514).
Application method: Brush, roller, spray.
Diluent: E-1900.
Thinning: *For application with brush or roller:* Dilute 7-10% b.w. [Application viscosity: 45±5 sec (DIN 53211/4 mm, 20°C)].
For spraying: Dilute 13-15% b.w. [Application viscosity: 23±2 sec (DIN 53211/4 mm, 20°C), Nozzle size: 1.5-1.8 mm, Air pressure: 2-2.5 atm].
For airless spray: Dilute up to 5% b.w. (nozzle: 409, Air pressure: 150-160 bar, filter white 80).

Tools are cleaned immediately after application with solvent E-1900, soap and water.

Drying time

Set-to-touch: 40±10 minutes (ASTM D 1640).
Dry through: 5±½ hours
Recoating time: Approx. 24 hours.
Complete hardening: After 7 days.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

Before the application of NOVEPOX, on metal surfaces it is recommended to apply the anticorrosive primer **NOVEPOX PRIMER 951**. On wooden, plastic and cement surfaces it is recommended to apply **NOVEPOX PRIMER 960**.
Other systems may be applied, depending on the application.

Packaging

Component A is available in 1Kg and 4Kg cans. Component B is available in 0.25 Kg and 1 Kg cans.

Storage

1 year for Components A and B, provided the cans remain closed and in normal storing conditions.

Health and safety

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

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.
- The system **NOVEPOX PRIMER 960 + NOVEPOX** is not water permeable.

Issued: November 2020
This issue replaces all others.