

Neopox® Floor

Two-component solvent-free, high build epoxy paint for flooring applications

Fields of Application

Neopox® Floor is a suitable coating that can be applied on cement-based floors which need high mechanical and chemical resistance, e.g. factories, laboratories, warehouses, superstores, parking places, garages, slaughterhouses, larders, hospitals, schools, etc. **Neopox® Floor** is also recommended for repair and refurbishment of old floors.

Properties/ Advantages

Neopox® Floor is a two-component epoxy paint based on selected resins and hardeners without solvents which shows great abrasion and yellowing resistance, significant strength and chemical resistance (to alkalis, solutions of acids, water, petroleum oils and many solvents).

Technical Characteristics

Appearance	Gloss
Density	Component A: 1,60 g/cm ³ Component B: 1,02 g/cm ³
Mixing ratio (weight proportion)	100A:27B
Consumption for 1 layer	250-300 gr/m ²
Hardening time (tack free) (25°C)	10 hours
Substrate Temperature	+12°C to +35°C
Ambient Temperature	+12°C to +35°C
Surface humidity content	<4%
Relative atmospheric humidity	<70%
Total Hardening	~ 7 days
Hardness (Shore D, ASTM 2240)	72
Abrasion resistance (ASTM D 4060)	68 mg - Taber Test ASTM D 4060 (CS 10/1000/1000)
Impact resistance (EN ISO 6272)	IR4
Adhesion strength (EN 13892-8)	≥ 2,5 N/mm ²
Resistance to temperature (dry loading)	from -30°C to +100°C

ATHENS: V. Moira str., P.O. Box 2315, GR 19600 Industrial Area Mandra, Athens, Greece, Tel.: +30 210 5557579, Fax: +30 210 5558482

THESSALONIKI: Ionias Str., GR 57009 Kalochori, Thessaloniki, Greece, Tel.: +30 2310 467275, Fax: +30 2310 463442

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Pot Life

Temperature	Time
+12°C	1 hour
+25°C	40 minutes
+30°C	30 minutes

Overcoating

Temperature	Time
+12°C	36 hours
+25°C	24 hours
+30°C	24 hours

Walkability

Temperature	Time
+12°C	36 hours
+25°C	24 hours
+30°C	24 hours

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Quality/Preparation of Substrate

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry (surface humidity content <4%) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Moreover, imperfections of new surfaces should be smoothed with pulveriser for lower material consumption and achieving better adhesion properties.

Application of Primer

Epoxol[®] Primer (thinned 10% per weight with **solvent Neotex 1021**) is applied in one layer (**2 coats** required in cases of increased porosity of the substrate) with roller, brush or airless spray. Before applying, mix both components (A&B) thoroughly to the correct predetermined mixing proportion by weight using a low speed electric stirrer for 2-3 minutes. When the substrate contains humidity more than 4% or there is rising moisture the surface should be primed with **Neopox[®] Primer AY**. Otherwise as a primer it can be applied **Epoxol[®] Primer SF** (solvent-free epoxy primer) or if the moisture of the substrate is up to 8%, if there is not rising moisture and the substrate temperature is > +12°C the surface should be primed with water-based primer **Acqua[®] Primer**.

After the primer has dried, any existing imperfections (cracks, holes) should be filled using **Neopox[®] Floor** mixed with quartz sand M-32 in proportions of 1:2-1:3 by weight, or using **Epoxol[®] Putty** in proportion from 1A:1B to 2A:1B depending on application conditions.

Instructions for use

Epoxy paint Neopox[®] Floor:

After primer dries, **Neopox[®] Floor** is applied. Mix both components A&B thoroughly to the correct predetermined mixing proportion by weight. **Neopox[®] Floor** must be thoroughly mixed using a low speed electric stirrer and it is important to stir the mixture thoroughly near the sides and bottom of the container.

Slip-resistant final surface Neopox[®] Floor:

First, **Neopox[®] Floor** is applied in the same way as in the smooth surface case. On the still fresh layer, quartz sand M-32 is spread, depending on the required anti-slipping effect. After hardening, any loose grains should be removed using a high suction vacuum cleaner. Finally, a finishing sealing layer of **Epoxol[®] Floor** is applied with roller and without the addition of quartz sand M-32.

Notes

- Low temperatures and high humidity during application prolong drying time, etc
- Allow at least 4 weeks to pass between casting new concrete structures and painting them with the product.
- Direct and continuous exposure to UV radiation can cause over time the chalking phenomenon.

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- After stirring the whole mix (A+B+quartz sand), pour the mortar soon enough in order to prevent high temperature and polymerization inside the container.
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.

Variations

Neopox® Floor Winter:

Special version of the product for application in highly humid environments and low temperatures (<12°C and >5°C, relative atmospheric humidity <80%, surface humidity content <4%).

Resistance to temperature (dry loading) from -30°C to +100°C.

Cleaning of Tools

Use solvent **Neotex 1021** immediately after application.

Stain Removal

Use solvent **Neotex 1021** when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

Colors

White (RAL 9003), Beige (RAL 1015), Grey (RAL 7035, RAL 7040), Terracotta (RAL 3009). Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

Packing

Sets of 12,7kg in plastic containers (component A) and tin cans (component B) in fixed weight proportion

Storage Stability

3 years (5-45°C) in sealed tin cans.

Safety Precautions

See Safety Data Sheets.

Auxiliary Materials

Epoxol® Primer: Set 5kg, 10kg

Epoxol® Primer SF: Set 10kg

Neopox® Primer AY: Set 5kg

Acqua® Primer: Set 7kg

Solvent Neotex 1021: Tin cans 1kg, 5kg, 20kg

Quartz sand M32: Bags 25kg