

Neopox[®] SF Plus

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

Fields of Application

Neopox[®] SF Plus 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[®] SF Plus** is also recommended for repair and refurbishment of old floors.

Properties/ Advantages

Neopox[®] SF Plus 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	1,54 g/cm ³
Mixing ratio (weight proportion)	13A:3B
Consumption for 1 layer	250-300 gr/m ²
Hardening time (tack free) (25°C)	12 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
Gloss (60°)	90
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

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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	22 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 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[®] SF Plus** 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[®] SF Plus:

After primer dries, **Neopox[®] SF Plus** is applied. Mix both components A&B thoroughly to the correct predetermined mixing proportion by weight. **Neopox[®] SF Plus** 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[®] SF Plus:

First, **Neopox[®] SF Plus** 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 **Neopox[®] SF Plus** 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

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the chalking phenomenon.

- 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.

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

Grey (RAL 7035), Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

Packing

Sets of 16kg in plastic containers

Storage Stability

2 years (5-45°C) in sealed cans.

Safety Precautions

See Safety Data Sheets.

Auxiliary Materials

Epoxol® Primer: Set 1kg, 5kg, 10kg

Epoxol® Primer SF: Set 10kg

Neopox® Primer AY: Set 1kg, 5kg

Acqua Primer: Set 0,7kg, 7kg

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

Quartz sand M32: Bags 25kg

Chemical Resistance			
	1 Hour (+20°C)	5 Hours (+20°C)	24 Hours (+20°C)
Phosphoric Acid (10%)	C	C	C
sulphuric acid (10%)	B	B	B
Hydrochloric Acid (10%)	A	A	A

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Lactic Acid (10%)	B	B	B
Nitric Acid (10%)	B	D	D
Sodium hydroxide - caustic soda (10%)	A	D	D
Formaldehyde (10%)	A	A	A
Ammonia (10%)	A	A	A
Chlorine (5%)	A	B	B
Diesel (10%)	A	A	A
Gasoline	A	A	A
Xylene	A	A	A
M.E.K	A	A	A
alcohol 95 ⁰	A	A	A
saltwater 15%	A	A	A
Engine oil	A	A	A
Red wine	A	A	A

- (A) EXCELLENT RESISTANCE
 (B) GOOD RESISTANCE (LIGHT DISCOLORATION)
 (C) POOR RESISTANCE (INTENSE DISCOLORATION)
 (D) NO RESISTANCE

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