



Nitoflor® SL901

High chemical resistant, self smoothing, Novalac based floor topping

Uses

Nitoflor SL901 floor topping is designed to provide protection to concrete and steel structures in aggressive chemical conditions. The material is particularly suitable in wastewater treatment plants, desalination plants, food processing plants, pulp and paper mills, electric power plants, chemical manufacturing plants, fertiliser and insecticide plants and petroleum refineries.

Nitoflor SL901 floor topping may be used in applications such as chemical processing and drum storage areas, loading docks and ramps.

Advantages

- Nitoflor SL901 floor topping contains 100% solids.
- Exhibits good chemical resistance in pH ranging from 1 - 14 at 25°C
- Excellent adhesion to properly prepared concrete, mild steel, and other substrates.
- Excellent abrasion resistance
- Available in limited range of colours

Description

Nitoflor SL901 floor topping is a solvent free, crosslinked, high build epoxy novolac based self smoothing floor topping. Nitoflor SL901 floor topping is a three part system consisting of a base, hardener and filler which when mixed provides a 2mm thick floor topping with excellent laying properties.

Technical support

The company provides a technical advisory service supported by a team of specialists in the field.

Specification clauses

Chemical and abrasion resistant floor topping

The chemical and abrasion resistant shall be Nitoflor SL901 floor topping, a high build, two pack epoxy novolac system specially designed to provide a tough and impermeable high chemical resistant self smoothing topping.

Properties

Solid content	100%
Finish	Gloss
Colour	Grey
Specific gravity	1.35
Pot life	45 mins at 23°C 20 mins at 35°C
Tack free time	8 - 10 hours at 23°C 4 - 6 hours at 35°C
Tensile strength	30 MPa
Elongation	Approx. 3%
Flexural strength	45 MPa
Compressive strength	95 MPa
Hardness	85 ± 5 Shore D
Abrasion resistance	
1 kg, H 22 wheels	0.10 mg/cycle
Service temperature	< 60°C

Chemical resistance

The fully cured topping is resistant to the splash / spillage of the following chemicals :

Acetic acid 25%	Hydrazine 35%
Ammonium hydroxide*	Hydrochloric acid 35%
Benzene	Hydrofluoric acid 25%
Benzoyl chloride	Hydrogen Peroxide 20% Vol
Benzyl alcohol	Isopropanol
Bleach	Jet fuel
(Sodium Hypochlorite 5%	
Boric acid*	Kerosene
Brake fluid	Lactic acid 20%
Brine 20%	Methyl isobutyl ketone
Car oil	Mineral spirit
Carbon Tetrachloride	Nicotinic acid*
Caster oil	Nitric acid 30%
Chromic acid 30%	Phenol 50% in IPA
Citric acid 50%	Phosphoric acid 85%
Crude oil	Potassium hydroxide*
Deionised water	Propylene glycol

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Diesel fuel	Sea water
Diethanolamine 88%	Skydrol
Ethylene glycol	Sodium hydroxide*
Ethylene glycol monoethyl ether	Sulfanilic acid*
Fatty acids	Sulphuric acid 98%
Formaldehyde 37%	Tartaric acid 50%
Gasoline	Toluene
Hexamine 25%	Vegetable oils
Hexane	Xylene

* Any concentration in water

The local Fosroc office should be consulted for resistance to specific chemicals and conditions or when long term exposure is required.

Application instructions

Preparation of concrete surfaces

The substrates which is to receive the topping, must be dry, sound and free from debris and loose material free from contamination such as oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion.

All blow holes and imperfections should be filled with Nitomortar FC.

Priming

Nitoflor SL901 floor topping is designed to be used without primer. However, if the condition of the concrete substrate requires priming, Nitoprime 25 can be used.

Mixing

It is imperative that the resin be thoroughly mixed with the hardener in the exact ratios to ensure optimum performance. Therefore, the entire contents of the hardener can should be added to the base container and mixed until a uniform colour and consistency are obtained, taking particular care to scrape the sides and bottom of the container. Finally the filler as supplied is added and mixed further for three minutes until a homogenous lump free slurry is obtained. It is recommended that mechanical mixing be employed using a jiffy mixer on a slow speed electric drill.

Application

Once mixed, Nitoflor SL901 floor topping should be immediately applied to the prepared surface ensuring a continuous topping of uniform thickness.

The mixed material should be spread on the floor using a notched trowel at the recommended coverage. The spread material should be lightly rolled using spiked roller.

Cleaning

Nitoflor SL901 floor topping should be removed from tools and equipment with Fosroc solvent Nitoflor Sol immediately after use. Cured material can only be removed mechanically.

Limitations

Substrate, ambient and product temperature must remain above 15°C during application and curing. Minimum material/container temperature for spray application is 20°C. Avoid moisture contamination. Nitoflor SL901 floor topping must be applied above dew point.

Nitoflor SL901 floor topping may not be colour stable when in contact with some chemicals. The colour change will not affect the performance of the protective system either on concrete or steel.

Estimating

Packaging

Nitoflor SL901	15 L
Nitoflor Sol	5 & 20 L
Nitoprime 25	1 & 4 L

Coverage

Nitoflor SL901	4.5m ² /pack @ 2mm thickness
Nitoprime 25	5.5 - 6.5 m ² /Litre

The coverage figure is theoretical. Due to wastage factors practical coverage figures may be reduced.



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Storage

Nitoflor SL901 floor topping has a shelf life of 12 months if kept in a dry store at temperature between 15 - 30°C.

Precautions

Health & Safety instructions

Nitoflor SL901 floor topping and Nitoflor Sol should not come in contact with skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapour. Some people are sensitive to epoxy resin systems and may develop dermatitis on skin contact. Gloves and barrier creams should be used when handling primers and Nitoflor SL901 floor topping. If contact with the skin occurs, wash with soap and plenty of water. Do not use solvent. Direct contact with the eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with plenty of water and medical treatment sought immediately. The use of goggles when mixing is recommended. Smoking is not recommended.



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