



Nitoflor® NT Slurry

Heavy duty, flow applied, lightweight anti-skid surface dressing

Uses

Nitoflor NT Slurry provides a lightweight, yet extremely hard-wearing anti-skid surface to a variety of substrates including steel, concrete, and timber.

Ideally suited for foot and road bridges, RO linkspans, helicopter decks, work platforms, ships decks, car parks, walkways, wet work industrial areas etc. Also suitable as a floor topping for spark free areas.

Advantages

- Coal tar free - more friendly to the environment
- Lightweight - important in design consideration of bridges and other structures.
- Good impact resistance
- Hard-wearing - proven ability to withstand the heaviest wear in locations around the world.
- Flexible - excellent tensile and flexural strengths.
- Excellent adhesion - to prepared steel surfaces and primed concrete substrates
- Good running surface - reduces wear and tear to vehicle tyres.
- Nonslip - excellent grip even when wet.
- Chemically resistant to oils, greases, hydraulic fluids and many other chemicals.
- Available in a range of dressing aggregates to suit traffic conditions
- Waterproof - excellent corrosion protection to steel and concrete substrates
- Zero spread of flame

Description

Nitoflor NT Slurry, is a three component system based on epoxy/ polyurethane, amine curing agents and chemically inert, graded silica fillers which when mixed forms a dark grey coloured fluid, homogenous slurry.

The components of Nitoflor NT Slurry are supplied in preweighed quantities ready to use on site.

The thickness of the Nitoflor NT Slurry is varied to suit traffic conditions.

- Light traffic - 3mm
- Medium traffic - 4mm
- Heavy traffic - 5mm

Specially selected, hardwearing aggregates are broadcast onto this slurry whilst it is still wet to provide a lightweight, durable, anti-skid dressing.

Choice of dressing aggregates is determined by the type and density of traffic expected.

The thickness of the finished surface with dressing will be between 5- 8mm, depending upon the exact system chosen to meet the expected end use.

Technical support

Fosroc is represented worldwide by technically trained personnel providing help and advice on material selection and application.

Properties

Pot life at 30°C	:	30 min.
Specific gravity (mixed)	:	1.8
Tensile strength (N/mm²)	:	20
Flexural strength (N/mm²)	:	39
Compressive strength (N/mm²):	:	55
Shore D Hardness	:	75
Material consumption	:	1.8kg/m ² per mm thickness
Curing time at 30°C	:	Foot traffic after 24 hours, vehicular traffic after 48 hours.

Chemical resistance

Fully cured Nitoflor NT Slurry has been shown to be resistant to the following chemicals after continuous immersion for 3 months at 30°C.

- Petrol
- Kerosene
- Diesel
- Hydraulic fluids
- Dilute mineral acids and alkalis
- De-icing salts
- Aircraft fuel
- 10% urea in water

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Application instructions

Surface preparation

Nitoflor NT Slurry can be applied to a variety of substrates. As with all flooring materials or protective coatings, correct surface preparation is essential.

Steel substrate : Nitoflor NT Slurry is specially formulated to exhibit tenacious adhesion to unprimed steel. However, all steel substrates should be blast cleaned to a minimum SA 2^{1/2} standard of cleanliness. An angular profile amplitude of at least 75 microns is recommended. The slurry should be applied as quickly as possible to the blasted steel surface. If the standard of the surface falls below SA 2^{1/2} then the steel must be reblasted.

Concrete substrates : Nitoflor NT Slurry is applied to clean, sound, dry concrete substrates which are free of any laitence, or loose particles. Mechanical scarifying or blasting methods are strongly recommended. Prepared concrete substrates should be primed with Nitoprime 31.

Primer

Only on concrete, primer should be used. Nitoprime 31 should be applied on the prepared substrate. Both the components of the primer shall be mixed till a homogeneous mixture is obtained.

The primer should be applied immediately by brush or lambswool roller to provide a thin even coverage. Care should be taken to avoid over application or puddles. If the existing surface is very porous, a second coat is necessary

Mixing

Proper mixing of the Nitoflor NT Slurry components is essential. The hardener shall be added to the base component and mixed well. The filler shall be added slowly and continuously whilst still mixing for 3-5 minutes until a homogenous mix is obtained. Solvent should not added. It is important that all components are intermixed thoroughly with a forced action mixer or an approved spiral paddle in a slow speed heavy duty drill so that no traces of the components remain unmixed.

Laying

Once mixed the Nitoflor NT Slurry must be used within the specified pot life.

Nitoflor NT Slurry is applied onto the primer whilst it is still tacky.

Pour the slurry onto the prepared surface. Work in lanes of 2-3m width, masking off edges with tape. Spread the slurry using a steel trowel or squeegee taking particular care when joining up to previous day's work. Use of a wet film gauge is recommended to ensure the correct thickness and material usage. The chosen surface dressing aggregate must be applied immediately after laying Nitoflor NT Slurry. The slurry coating is blinded to saturation by allowing the aggregate to fall vertically until no slurry is visible. Do not throw aggregate at an angle over the slurry as this may cause ridges. Masking tape must be removed before the coating has cured. The Nitoflor NT Slurry must be allowed to cure for 24 hours at 30 deg.C before being subject to traffic. At lower temperatures this period will be increased.

Providing it is clean and dry, excess dressing aggregate can be removed with a broom and reused after the initial curing period.

Cleaning

All tools can be cleaned immediately after use with Nitoflor Sol.

Limitations

Temperature limitations

Recommended application range is 15 deg.C to 35 deg.C. Consult the local Fosroc office, if application or service temperatures are outside this range.



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Application limitations

Minimum ambient temperature	: 15°C
Maximum humidity	: 75% at 25°C (Moisture content 5%)
Substrate temperature	: 15 °C minimum

Estimating

Supply

Nitoflor NT Slurry	: 25 kg
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Coverage

1.8kg/m² per mm thickness. For light traffic, a layer of 3.0mm is advised and for heavy traffic, 4-5mm.

Storage

Nitoflor NT Slurry and Nitoprime 25 have a shelf life of 12 months when stored in warehouse conditions below 35 deg.C.

Precautions

Health & Safety instructions

Some people are sensitive to epoxy resins and cleaning solvents. The use of protective clothing, gloves, proprietary barrier creams and eye goggles is recommended. If contact with resins or solvents occur, clean the affected area with removing creams followed by washing with soap and water. Never wash resin with solvent. In the case of eye contact, wash thoroughly with clean water and seek medical advice immediately.

Additional information

In addition, the Nitoflor range of industrial flooring products include concrete hardeners, resin floor coatings, toppings and screeds designed to meet most requirements of modern industrial environments. For further information contact the local Fosroc office.



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