

Fosroc® Nitodek FS Wearcoat



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constructive solutions

A three component flexible resinous wearcoat for Nitodek FS systems

Use

The Nitodek FS system is a hybrid fast curing trafficable waterproofing system that combines MMA Technology with polyurethanes to produce a slip resistant solution that is both hard wearing and flexible suitable for balconies, car park decks, ramps and turning circles. Bespoke systems can be produced from the suite of system products to suit specific situations and performance requirements. Nitodek FS Wearcoat is a solvent free methacrylate resin that provides an impact resistant flexible wear resistant layer.

Advantages

- Fast setting
- Outstanding impact resistance
- Good crack bridging properties
- Good low-temperature flexibility
- Seamless
- Easy to apply
- Solvent free

Description

Nitodek FS Wearcoat is a three component product comprising resin, filler and hardener. It cures rapidly to give high impact resistance and low-temperature flexibility.

Properties

Typical properties at 20°C unless otherwise noted:

| | |
|---------------------------------|------------------------|
| Viscosity (resin) | 1000 mPa·s |
| Density (resin) | 0.98 g/cm ³ |
| Pot life | Approx. 15 min |
| 100% pbw resin + 2 pbw hardener | |

Application

Surface preparation

Nitodek FS Wearcoat is applied over Nitodek FS Membrane and / or Nitodek FS Primer.

The receiving surface must be dry and free from contamination.

Substrate

Preparation of the concrete substrate takes place prior to the application of the Nitodek FS Primer. Consult the Nitodek FS Primer technical data sheet for substrate requirements and preparation.

For steel and other substrates contact the Fosroc Technical Help Desk.

Treatment of cracks/joints/day-joints/up-stands

Consult Fosroc Technical Help Desk for details of treatment.

Application Temperature

Normal application temperature range is 5 - 30°C. For application temperatures <5°C or >30°C please contact Fosroc Technical Help Desk.

Application of Fosroc Nitodek FS Wearcoat

The substrate must be primed and if required membrane and fleece also applied, in accordance with Fosroc's Nitodek FS Method Statement.

Nitodek FS Wearcoat should be mixed according to the advice given in Table 1 (below). Dependent on the skill and experience of the user different application tools can be used such as comb or smooth trowel.

For car park decks apply a single coat at 2mm thickness; broadcast Nitodek FS Anti-slip blinding onto the Wearcoat before this cures.

For turning circles apply two coats of Wearcoat each coat of 2mm thickness; broadcast Nitodek FS Anti-slip blinding onto the upper layer of Wearcoat before this cures.

For ramps apply two coats of Wearcoat, each coat of 1mm thickness; broadcast Nitodek FS Anti-slip blinding onto the upper layer of Wearcoat before this cures.

The sand broadcast is essential as this relieves point stress in the completed system. Once cured, use a soft brush to remove all excess sand and then vacuum.

Nitodek FS Wearcoat must be allowed to fully cure (1-3 hours dependant on temperature) before over-coating

Recommended batch size

| Item | Component | Batch Quantity for 30 litre bucket |
|------|----------------------------|------------------------------------|
| 1 | Nitodek FS Wearcoat Resin | 12.5 kg |
| 2 | Nitodek RS Wearcoat Filler | 12.5 kg |
| 3 | Nitodek FS Hardener | 125 - 750g * |
| | Total: | 25.0 kg approx |

* See "Hardener dosages" table for quantities

Hardener dosages

| Temperature | Hardener Powder % (of resin) | Pot life approx. min. | Curing time approx. min. |
|-------------|------------------------------|-----------------------|--------------------------|
| +5 °C | 6.0 | 20 | 60 |
| +10 °C | 4.0 | 15 | 40 |
| +20 °C | 2.0 | 15 | 40 |
| +30 °C | 1.0 | 10 | 25 |

For further Hardener information, please refer to the separate product information sheet "Nitodek FS Hardener Powder".

Fosroc® Nitodek FS Wearcoat

Estimating

Supply

Nitodek FS Wearcoat is supplied as:

| | |
|---------------------------|-------------|
| Nitodek FS Wearcoat Resin | – 25kg pail |
|---------------------------|-------------|

| | |
|----------------------------|-------------|
| Nitodek FS Wearcoat Filler | – 25kg sack |
|----------------------------|-------------|

| | |
|---------------------|------------|
| Nitodek FS Hardener | – 25kg box |
|---------------------|------------|

Cleaning

Tools and equipment can be cleaned immediately after use with Nitodek FS Solvent.

Estimating

If required refer to your local Fosroc office for an estimation of the Nitodek FS System quantity.

Yield

25kg of Nitodek FS Wearcoat applied at 1.6kg/m² per mm thickness will cover approximately 8m² (2mm application)

Limitations

Nitodek FS Wearcoat should not be used below 5°C. Use in a well-ventilated area. Do not apply to wet or damp surfaces. If in any doubt concerning substrate condition or temperature consult the local Fosroc office.

Storage

Store in dry conditions away from sources of heat and naked flames. All products have a shelf life of 6 months if stored in the unopened original container in a cool (< 25 °C), dry and frost-free location. The optimal storage temperature is +15°C to +20 °C.

Do not expose to direct sunlight!

Precautions

Health and safety

For further information refer to the appropriate Product Safety Data Sheet available from www.fosroc.com

Fire

Nitodek FS Wearcoat Resin is flammable. No smoking. In the event of fire extinguish with foam or CO₂. Do not use water jet. Nitodek FS Wearcoat must be stored separately from Nitodek FS Hardener.

| | |
|-------------|--------|
| Flash point | +10 °C |
|-------------|--------|

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