



# New Guard Coatings Group

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[www.newguardcoatings.com](http://www.newguardcoatings.com)

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## 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 Hardener is used with the reactive resin system components (Coving Paste / Primer / Membrane / Repair Mortar / Wearcoat / Topcoat) as the reactant / hardener.

## Advantages

- Fast setting allows for quick over-coating
- Solvent free

## Description

Nitodek FS Hardener is a white free-flowing powder that when mixed with Nitodek FS resins (solvent-free, multi-component methacrylic resins) at the correct percentage by weight, rapidly hardens the resin. Nitodek FS Hardener's active component is benzyl peroxide (also known as BPO).

## Properties

The final cured properties will depend on which Nitodek FS resin the hardener is used. Please refer to the individual Nitodek FS resin technical data sheet.

## Application

Nitodek FS Hardener is used as a component hardener in the mixing process of other Nitodek FS resin products.

## Dosage

The percentage of hardener powder required will vary with substrate temperature. Dosage can be found in the Nitodek FS resin technical data sheets (see Hardener Dosage Table). Note the quantity of hardener powder is proportional to the quantity of resin to be used

More hardener powder is advisable for:

1. Thinner coating applications
2. Higher use of filler

Do not dose less than the quantity of hardener powder indicated in the Nitodek FS resin technical data sheets, as this will detrimentally affect the curing process. Avoid overdosing the hardener powder, as this can also lead to serious curing problems, triggered by excessive temperatures of cure.

Hardener quantities are best measured by means of an electronic scale. If there are no scales to be found, use a graduated measuring jug; in this case the quantity of hardener

must be converted from weight to volume.

To convert from weight to volume, apply the following basic rule:

Mass of hardening powder (g) x 1.5 = volume of hardener powder (ml)

Example:

Batch quantity of Nitodek FS Primer resin: 1.0kg

According to the Hardener Dosages table at +20°C, add 3% by weight of hardening powder.

3% by weight of 1.0 kg of Nitodek FS Primer resin is 30g, i.e. 30g of hardener powder must be added to 1.0kg of Nitodek FS Primer resin.

Convert from g to ml using the following formula:

$30g \times 1.5 = 45ml$

## Advice on application

The hardener powder must not be added to the corresponding Nitodek FS reactive resin until immediately before application. In the case of pourable mixes, the hardener should be the last component added, while for mortars the full amount of filler or should be stirred in first before the hardener is added. Only in this way can the hardener dissolve evenly within the mixture.

The hardener powder must always be stirred into the corresponding resin or resin/filler mixture until it has completely dispersed. The stirring time will depend on the type and condition of the mixing equipment and on the temperature of the material.

## Hardener Dosages

Consult the tables given in the individual product technical data sheets for hardener dosage – this will vary both with substrate temperature and product.

## Limitations

Nitodek FS Hardener should not be used below 5°C. For application temperatures <5°C please contact Fosroc Technical Help Desk.

Use in a well-ventilated area.

## Supply

Nitodek FS Hardener :	25kg carton
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## Storage

Store in 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!

# Fosroc® Nitodek FS Hardener

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## Precautions

### Health and safety

For further information refer to the appropriate Product Safety Data Sheet available from [www.fosroc.com](http://www.fosroc.com)

### Fire

Heating of Nitodek FS Hardener may cause fire. Keep away from sources of heat and ignition. No smoking. In the event of fire extinguish with foam or CO<sub>2</sub>. Do not use water jet.

Nitodek FS Hardener Powder must be stored separately from Nitodek FS resins.

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#### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

## Fosroc Limited

Drayton Manor Business Park  
Coleshill Road, Tamworth,  
Staffordshire B78 3XN. UK

[www.fosroc.com](http://www.fosroc.com)

**telephone:**  
+44 0 (1827) 262222

**fax:**  
+44 0 (1827) 262444

**email:**  
[enquiryuk@fosroc.com](mailto:enquiryuk@fosroc.com)

