# Nitoprime 31

FOSROC constructive solutions

## Primer for flooring and coatings

### Uses

The table below summarises which Nitoprime product should be used in different situations. Where multiple choices exist, final choice will then depend upon the cure times required and site conditions such as ventilation. Where H.C.A preparation techniques are used, only Nitoprime 30 or 31 is suitable as primer.

| | Type of concrete | | |
|---|---|---|---|
| Fosroc Products | Dense | Normal | Porous |
| Nitoflor FC150/FC500 | 30/31 | 30/31/32 | 30/31 |
| Nitoflor SL Range | 30/31 | 30/31/32 | 30/31 |
| Nitoflor TF5000/10000 | 30/31 | 30/31 | 30/31 |
| Nitoflor Antistatic | 30/31 | 30/31/32 | 30/31 |
| Cicol ET Slurry | 30/31 | 30/31 | 30/31 |
| Nitocote EP Range | 30/31 | 30/31 | 30/31 |
| Nitocote ET Range | 30/31 | 30/31 | 30/31 |
| Nitomortar HB/S | 30/31 | 30/31 | 30/31 |

### Description

Nitoprime 31 is used for flooring work with the Nitoflor resin flooring range, it is also recommended for some coating systems.

Nitoprime 31 is a two-part solvent free, general purpose aromatic amine cured epoxy based primer. Particularly suitable for normal weather conditions allowing sufficient time to finish the flooring/coating application.

### Temperature

All Nitoprime primes should be applied at temperatures of 5°C or above. Use Nitoprime 32 for conditions of above dew point. Consult Fosroc Technical Department for specific conditions.

### Physical Properties

| | Nitoprime 31 |
|---|---|
| Carrier | None |
| Cure time (hours) 5°C | 24-36 |
| 25°C | 6-8 |
| 35°C | 2-3 |
| Pot life (hours) 5°C | 5-7 |
| 25° C | 1-2 |
| 35°C | 0.5-1 |
| Open time (hours) | 24 hours after curing |
| Mix S.G 25°C | 1.05 |

### Ventilation

Adequate ventillation should be provided with all Nitoprime, if only poor ventilation is possible Nitoprime 31 can be used.

## Application Instructions

### Substrate preparation

Adequate mechanical preparation of the substrate is vital before any priming takes place. Consult Fosroc Technical Sales staff for guide on substrate surveying and preparation.

### Mixing

Nitoprime 31 is supplied as two component systems in premeasured packs. Empty the content of small pack component into the large component pack and mix for 2-3 minutes using a slow speed electric drill and mixing paddle until uniform consistency is achieved. Do not mix part packs.

### Application

Nitoprime 31 should be applied by brush or short haired quality wool roller. When applying by roller use suitable roller tray to avoid primer ponding on the floor and to reduce exotherm effects which will shorten the pot life.

The primer should be applied evenly across the surface avoiding thick layers which could result in air entrapment.

The following drying regimes apply depending upon the Fosroc product system to be used.

All Nitoflor FC and SL systems. Antistatic and Nitocote EP range, allow the primer to dry completely before applying the flooring/coating product.

Nitoflor TF5000/10000, Cicol ET Slurry and Nitomortar HB and S should be applied whilst primer is tacky.

Any porous or absorbed areas are still showing after primer application, should be re-primed.

Cleaning

Tools and equipment should be cleaned with Fosroc Solvent 102 immediately after use.

## Precautions

### Health and Safety

Some people are sensitive to epoxy resins so gloves and a barrier cream, Kerodex 71, Rozalex 9, Debba-Wet work or similar, should be used when handling these products. If contact with the resin occurs, it must be removed, before it hardens, with resin removing cream such as Kerocleanse 22, and Rozalex 42 follow by washing with soap and water. Do not use Solvent.

### Fire

Nitoprime 31 is non-flammable whereas30, 31 and Nitoflor Sol are flammable. Ensure adequate ventilation when using primers and solvents. Do not smoke during use and do not use in the vicinity of naked flames.

# Nitoprime 31

### Flash points

| | |
|---|---|
| Nitoprime 30/31 | 75°C |
| Nitoprime 32 | N/A |
| Nitoflor Sol | 32°C |

### Storage

Shelf life of 12 months if stored below 25°C.

### Package

Nitoprime 31 is available in 1 and 4 litre packs.

### Coverage

Approximate coverage rate : 4-5 sq.m/liter

Nitoflor Sol 5 & 20 litres

### Supply

Contact your local Fosroc office or representative.

### Technical support

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

### Additional Information

Fosroc produces a range of protective coatings, joint sealants, repair compounds and flooring products designed to meet a wide variety of industrial and construction requirements.


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**Important note :**
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