



# Nitoprime 25DS

Damp tolerant primer for FOSROC resin product

## Descriptions and uses

NITOPRIME 25DS is a two component epoxy based primer with good penetrating properties and a low odour. It is suitable for priming all concrete surfaces prior to the application of any of the NITOFLOOR SL or TF range of resin based floor toppings, NITOCOTE range of protective coatings, NITOMORTAR epoxy repair mortars and NITOSEAL sealant. It is specially designed for priming of the concrete surface having high moisture content as well as for dry concrete surface.

NITOPRIME 25DS is supplied in pre-measured quantities ready to mix and use on site. Part mixing on site is not recommended.

## Properties

### Curing Characteristics

Specific gravity	: 1.06
Pot life	: 90 minutes at 30°C
Minimum primer	
Overcoating time	: 18 hrs at 30°C
Application temperatures	: recommended at 10 - 40°C Consult Fosroc Technical Department where application temperature is outside this range.
Service temperatures	: 5 - 60°C

### Packaging and coverage

	Pack size	Approximate coverage rate
NITOPRIME 25DS	1 kg	5.5 - 6.5 m <sup>2</sup>
	5 kg	27.5 - 32.5 m <sup>2</sup>

Surface preparation is vital. FOSROC recommends mechanical preparation techniques (for example, mechanical scarifying, grit blasting). For flooring and tanking works where damp surface exist, care must be taken to ensure that water is not present on the surface of the substrate.

**New concrete floors:** Should be at least 7 days old or be ensured that no effect of insufficient curing time before proceeding with epoxy works. Laitance deposits on new concrete floors are best removed by light grit - blasting, mechanical scabbing or grinding. On smaller areas thorough acid etching using FOSROC ACID ETCH may be considered. After etching the floor should be thoroughly washed with clean water and then allowed to dry.

**Old concrete floors:** Again mechanical cleaning methods are strongly recommended on old concrete floors, particularly where heavy contamination by oil and grease has occurred or existing coatings are present. This may well have been absorbed several mm into the concrete. To ensure adhesion all contamination should be removed. Chemical degreaser may be used on small areas of light contamination only.

All dust and debris should be removed prior to laying NITOPRIME 25DS. An industrial vacuum cleaner is most suitable for this job.

**Steel or metal surfaces:** NITOPRIME 25DS is not recommended to be applied for these surfaces.

## Instruction for use

### Mixing

Add entire content of the small hardener tin to the base tin and mix thoroughly until homogeneous, using a slow speed drill (400-500 rpm) fitted with a suitable mixing paddle.

### Application

Once mixing, immediately apply the primer in a thin continuous film to the clean prepared surface. Work the primer into the surface using stiff brushes or roller. Avoid over-application and puddling. On porous surface the NITOPRIME 25DS will be absorbed very quickly leaving characteristic light coloured dry patches. It is recommended that a second priming coat be applied to these dry porous area. This does not only help to ensure adhesion but prevents air release from the porous substrate which may cause bubbles in the final applied epoxy layer.

Leave the primer coating of NITOPRIME 25DS for at least 18 hour before applying with top epoxy coating. Ensure the coated areas are protected from water splash, rain, dust and other contaminants prior to applying top coating.





## Precautions

### Health & safety

ALL NITOFLO, NITOCOTE, NITOSEAL, NITOPRIME and FOSROC CHEMICAL DEGREASER should not come in to contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours. Some people are sensitive to epoxy resin, hardener and solvent. Glove, goggles and barrier creams, should therefore be used. Ensure adequate ventilation and if working in closed areas, suitable breathing apparatus must be used.

If resin comes in contact with skin, it must be removed before it hardens, with a resin removing creams followed by washing with soap and water - DO NOT USE SOLVENT 102 and FOSROC CHEMICAL DEGREASER should be washed from skin immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - DO NOT induce vomiting.

### Cleaning

All tools and equipment should be cleaned with water immediately after use. Spillage should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

## Fire

NITOPRIME 25DS and FOSROC CHEMICAL DEGREASER are flammable. Do not expose to naked flames or other sources of ignition. NO SMOKING. Containers should be tightly sealed when not in use. In the event of fire extinguish with CO<sub>2</sub> or foam type extinguishers.

Flash Point:	NITOPRIME 25DS	39°C
	FOSROC CHEMICAL CHEMICAL DEGREASER	48°C

## Storage

NITOPRIME 25DS has a shelf life of 12 months stored in a dry place under 35°C

## Supply

NITOPRIME 25DS is supplied in 5 kg set. Contact your local FOSROC office or representative for supply.

## Technical Service

FOSROC provides a world-wide technical advisory service supported by teams or specialists in the field.

## Additional Information

Ancillary products include concrete repair product, grout, joint sealant and protective coating all ideally suited for industrial maintenance requirements.



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## Important note

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