



# Nitoseal® MS50

## One part, general purpose building sealant

### Uses

Nitoseal MS50 is suitable for sealing joints in Concrete, Brickwork, Blockwork, Perimeter sealing around doors and windows, Non-trafficked floor joints.

### Advantages

- Excellent adhesion to most common building materials
- Single component with fast rate of cure
- Easy to apply at low temperature
- Can be applied to damp substrates
- Environmentally friendly
- Primer-less for most applications (see "Priming")
- Available in a range of colours (see "Properties")
- Isocyanate free technology

### Description

Nitoseal MS50 is a one part, medium modulus sealant based on hybrid silyl modified polyether technology.

### Specification

Where shown on the contract documents, the one part sealant shall be Nitoseal MS50 supplied by Fosroc. It shall provide good UV protection and have a movement accommodation factor of 20%.

### Properties

Form	Smooth, non-slumping paste
Flash point	>65°C
Colour	White, Grey, Black, Portland Buff, Rustic Red, Brown
Movement accommodation factor	20%
Skining time (@20°C / 50% RH)	30 minutes
Cure rate (@20°C/50% RH)	
24 hours	: 3mm
48 hours	: 6mm
72 hours	: 8mm
Application temperature	: 5 - 50°C
Typical hardness (Shore A at 27°C)	: 45
UV resistance	: Good

## Instructions for use

### Preparation

Joint surfaces must be clean dry and free from all dirt, laitance, loose material and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces. Removal can be achieved by rigorous wire brushing, grinding or grit blasting.

Joints in concrete should preferably be sawn. After sawing all saw slurry must be flushed away and the joint allowed to dry.

When resealing, the existing sealant should be removed from the joint and the surface cleaned back to sound clean concrete. All debris should be removed.

Any expansion joint filler must be checked to ensure it is tightly packed and no gaps or voids exist at the base of the sealing slot before positioning a bond breaker.

The use of a bond breaker is not required in expansion joints containing cellular polyethylene joint filler such as Hydrocell XL\*†. For construction or contraction joints, a bond breaker tape or back-up strip must be used.

Where a particularly neat finish is required, mask the face edges of the joint before sealing and remove immediately after tooling is completed.

### Priming

In joints where limited movement is expected, a primer is not normally required. In joints subject to high movement or intermittent immersion during service, Fosroc Primer MS1 is recommended.

Prime the joint face using a clean, dry brush. Avoid over application of primer causing puddles in the bottom of the joint.

Nitoseal MS50 should be applied between 30 minutes and 4 hours after priming. If a joint is left unsealed for more than 4 hours, the primer should be removed by grit blasting or grinding and the joint reprimed. Please contact your local Fosroc representative for any clarifications on priming.

### Application

Cut the end off the sachet and place in the Fosroc GX gun. Fit the nozzle and cut at 45° at a suitable size for sealing the joint. Extrude the sealant firmly into the joint.

Tool flush within 5 minutes of application to ensure good contact between the sealant and the substrate.

### Cleaning

Clean tools immediately after use with Nitoflor Sol.

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## Estimating

### Supply

Nitoseal MS50 : 10 no x 600ml sachets per box.

Fosroc Primer MS1 : 200ml packs

### Guide to sealant quantities

Joint size in mm	Litre per metre run	Metre per 600ml sachet
6x10	0.060	10.00
12x10	0.120	5.00
20x20	0.400	1.50
25x12	0.300	2.00
30x15	0.450	1.33
40x20	0.800	0.75

0.5 litres of Fosroc Primer MS1 will be sufficient for 60m of joint.  
No allowance has been made for joint dimensions or wastage

### Limitations

- For continuous water immersed conditions, use Nitoseal MS600
- For trafficked floor joints, use Nitoseal MS300
- Not suitable for contact with Bituminous materials.



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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or 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 or information given by it.

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- Not suitable for contact with solvents, oil or petrol.
- Overcoating of the sealant will reduce the MAF of the sealant.

### Storage

When stored in warehouse conditions below 35°C, Nitoseal MS50 will have a shelf life of 12 months.

### Precautions

#### Health and safety

Nitoseal MS50 is considered safe in normal use. However, as with any material, good hygiene practices should be followed, i.e. keep out of eyes, do not consume, keep away from children and pets, wash hands thoroughly after use.

#### Fire

Nitoseal MS50 is non flammable while Fosroc Primer MS1 is flammable. Please refer to the Material Safety Data Sheet for details.

### Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- cementitious & epoxy grouts
- specialised flooring materials

For further information on any of the above, please consult your local Fosroc office - as below.

