

# Fosroc® Nitoseal MS60

constructive solutions

One part, general purpose building sealant

## Uses

Nitoseal MS60 is suitable for sealing joints in concrete, brickwork, blockwork, perimeter sealing around doors and windows, and non-trafficked floor joints.

## Advantages

- Adhesion to most common building materials
- Single component with fast rate of cure
- Easy to apply
- Can be applied to damp substrates
- Primerless for most applications (see "Priming")
- UV resistant and colour stable
- Performs as an acoustic sealant
- Available in a range of colours
- Environmentally friendly

## Description

Nitoseal MS60 is a one part, low modulus sealant based on hybrid silyl modified polyether ("MS") technology.

## Standards compliance

Performs as an acoustic sealant to:

BS EN ISO 140-3:1995 Laboratory measurement of airborne sound insulation of building elements

BS EN ISO 717-1:1997 Rating of sound insulation in buildings and of building elements. Airborne Sound Insulation.

## Joint Design

Nitoseal MS60 may be applied to joints between 5 and 35mm wide. To minimise stress imposed on the joint sealant, all moving joints should be designed to an optimum width to depth ratio of 2:1 with an overriding minimum depth of 5mm for non-porous surfaces and 10mm for porous surfaces.

Joint width should be sufficient to ensure the MAF of the sealant is not exceeded.

For joint widths exceeding 35mm, please contact your local Fosroc Technical Service Department.

## Properties

|                                     |   |
|-------------------------------------|---|
| Form                                | Smooth, non-slumping paste  |
| Colour                              | White, Grey, Black, Magnolia, Buff, Portland, Rustic Red, Brown, Anthracite |
| Skinning time at 20°C / 50%RH       | 1 – 2 hours   |
| Cure rate at 20°C/ 50% RH           | 24 hours 2mm  |
| Application temperature             | 5°C to 50°C   |
| Hardness at 20°C                    | Shore "A" 25  |
| Movement accommodation factor (MAF) | 25%   |
| UV resistance                       | Very Good   |
| Colour stability                    | Very Good   |
| Service temperature range           | -20°C to 70°C   |

## Application instructions

Joint surfaces must be clean, dry and free from frost. Remove all dirt, laitance, loose material and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces.

Removal can be achieved by grinding, grit blasting or wire brushing.

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

A primer is not normally required. In joints subjected to high movement or where intermittently immersed during service Fosroc Primer MS1 is recommended.

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

Nitoseal MS60 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 re-primed.

For further advice on priming please contact your local Fosroc Technical Service Department.

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## Application and finishing

### Sachets

Cut and remove the end of the sachet and place sachet in the Fosroc GX gun.  
Fit the nozzle and cut at 45 degrees to a suitable size for sealing the joint.

### Cartridges

Cut and remove the end of threaded stub on cartridge.  
Fit the nozzle and cut at 45 degrees to a suitable size for sealing the joint.  
Extrude the sealant firmly in to 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 Fosroc Equipment Cleaner or Fosroc Solvent 102.

### Estimating

#### Guide to quantities

#### Sealant

| Joint size mm | Litres/ metre run | Metres / 380ml cartridge | Metres/ 600ml sachet |
|---------------|-------------------|--------------------------|----------------------|
| 10 x 6        | 0.06              | 6.3                      | 10.0                 |
| 12 x 10       | 0.12              | 3.2                      | 5.0                  |
| 20 x 10       | 0.20              | 1.9                      | 3.0                  |
| 25 x 12       | 0.30              | 1.3                      | 2.0                  |
| 30 x 15       | 0.45              | 0.8                      | 1.3                  |

#### Primer

0.5 litre of Fosroc Primer MS1 for approximately 60 metres of Nitoseal MS60 seal.

## Packaging

|                   |   |
|-------------------|---|
| Nitoseal MS60     | 600ml sachets x 10 per box<br>380ml cartridges x 20 per box |
| Fosroc Primer MS1 | 0.5 litre packs   |

## Limitations

- Should not be applied at temperatures below 5°C.
- Not suitable for water immersed conditions. Nitoseal MS600 should be used for this application.
- Not suitable for contact with bituminous materials
- Not suitable for trafficked floor joints. Nitoseal MS300 should be used for this application.
- May cause staining to decorative stone. For a non-staining sealant use Nitoseal MS100.
- Not suitable for contact with solvents, oil or petrol
- Should only be over-coated with a compatible, flexible coating capable of accommodating the expected movement in the joint. Over-coating may reduce the movement capability of the sealant.
- Confirm compatibility with coating if applied to painted surfaces

## Storage

Store in original packaging in cool, dry conditions. Shelf life 12 months. Storage outside of these conditions may reduce shelf life.

## Precautions

### Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Fosroc Primer MS1 is flammable. See Material Safety Data Sheet for details.



#### 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.

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