

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

ISO 11600 Type F25LM

ASTM C920 Type S, Grade NS, Class 25

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

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

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| Nitoseal MS60 | |
| EN 15651-1:2012: Sealants for façade elements | |
| Resistance to flow for non-sagging sealants | ≤ 3mm |

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 |
| Colours | White, Grey and Black (additional colours available, see local Fosroc office) |
| Skinning time | up to 2 hours depending on ambient conditions |
| Cure rate at 20°C/ 50% RH | 24 hours 2mm |
| Application temperature | 5°C to 50°C |
| Hardness at 23°C | Shore "A" >20 |
| E-Modulus ISO 8339 | <0.4N/mm ² |
| Movement accommodation factor (MAF) | 25% |
| UV resistance | Very Good |
| Colour stability | Very Good |
| Service temperature range | -20°C to 70°C |
| LEED EQc4.1 | Passes |
| SCAQMD Rule 1168 | |
| BAAQMD Reg 8 Rule 51 | |

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 MS2 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.

Fosroc® Nitoseal MS60

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.

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. Using a proprietary skeleton cartridge gun, 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 |

Packaging

| | |
|-------------------|---|
| Nitoseal MS60 | 600ml sachets x 10 per box 380ml cartridges x 20 per box |
| Fosroc Primer MS2 | 0.75 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

Shelf life of 12 months if kept in a dry store at 10 – 20°C in original unopened packaging. If stored at high temperatures and / or high humidity, the shelf life may be significantly reduced.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Fosroc Primer MS2 is flammable. See Material Safety Data Sheet for details.

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Important note

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