

Nitoseal MS50

constructive solutions

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
- Acts as an acoustic sealant

Description

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

Properties

| | | |
|-------------------------------------|---|-----|
| Form | Smooth, non-slumping paste | |
| Colour | White, Grey, Black, Magnolia, Buff, Portland, Rustic Red, Brown, Anthracite | |
| Flash point | > 65°C | |
| Skinning time at 20 C / 50%RH | 30 minutes | |
| Cure rate at 20 C, 50% RH | 24 hours | 3mm |
| | 48 hours | 6mm |
| | 72 hours | 8mm |
| Application temperature | 5°C to 50°C | |
| Typical hardness Shore "A" at 20 C | 28 | |
| Movement accommodation factor (MAF) | 20% | |
| UV resistance | Good | |

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 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 arris 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 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

In joints where limited movement is expected, 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 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.

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

Application and finishing

Sachets

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

Cartridges

Cut end off threaded stub on cartridge, Fit the nozzle and cut at 45 degrees at 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.

Nitoseal MS50

Estimating

Guide to sealant quantities

| Joint size /mm | Litres/ metre run | Metres/ 380ml crtidge | Metres/ 600ml sachets |
|----------------|-------------------|-----------------------|-----------------------|
| 6 x 10 | 0.06 | 6.33 | 10.00 |
| 12 x 10 | 0.12 | 3.17 | 5.00 |
| 20 x 10 | 0.20 | 1.00 | 1.00 |
| 25 x 12 | 0.30 | 1.27 | 2.00 |
| 30 x 15 | 0.45 | 0.84 | 1.33 |

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

Packaging

Nitoseal MS50 10x600ml sachets per box in Grey

20x380ml cartridges per box in all colours

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
- Nitoseal MS50 should only be over-painted with a compatible, flexible coating capable of accommodating the envisaged movement in the joint. Overcoating may reduce the MAF of the sealant.

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

Nitoseal MS50 is considered safe in normal use. For further information refer to appropriate Product Safety Data Sheet.

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



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Important note

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