



Fosroc Nitoseal MS300

One part, tough, flexible and abrasion resistant floor joint sealant

Uses

Nitoseal MS300 is suitable for sealing saw-cut construction and expansion joints and perimeter joints in internal floors, and external joints where abrasion resistance is required.

- Factory floors
- Shopping centres
- Warehouse and distribution depots
- Concrete hardstanding areas
- Sports stadia terracing

Advantages

- Good adhesion to silicone/PU/polysulphide contaminant
- Suitable for saw cut and perimeter joints
- Cures to a tough seal
- Abrasion resistant
- Withstands vehicular traffic
- Single component
- Fast rate of cure
- Can be applied to damp substrates
- Primer-less for most applications (see "Priming" section)

Standard compliance

ISO11600 Type F 25HM

ASTM C793 after accelerated weathering

Description

Nitoseal MS300 is a one part, high modulus sealant based on hybrid silyl modified polyether technology. It has a rapid rate of cure and forms a tough elastomer capable of supporting heavy wheel loads.

Design criteria

Nitoseal MS300 can be applied to joints between 6 mm and 50 mm wide and applied between 6 mm and 25 mm deep. In most cases it is recommended to form a sealing slot with a square cross-section, subject to a minimum 10 mm depth. To ensure the sealant operates within its stated movement accommodation capacity the sealing slot widths should be designed in accordance with the recommendations of BS6093.

Properties

Form : Paste

Flash point : >65°C

Solids content : 100%

Colour : Grey

For special colours contact Fosroc for further Information

Movement : Butt joints 25%

accommodation factor Lap joints 50%

Skimming time

(@20°C/50% RH) : 25 minutes

Cure rate (@20°C, 50% RH)

24 hours : 3 mm

48 hours : 6 mm

72 hours : 8 mm

Application temperature: 5°C to 50°C

Typical hardness

(Shore "A" at 20°C) : 45

Trafficking time (@20°C)

Light traffic : 24 hours

Heavy traffic : 4 days

Modulus : High

UV resistance : Excellent

Sound Reduction Index,dB

(BS EN ISO 717-1:97) : 55 (-1;-4) dB = Rw(C;Ctr)

Application instructions

Preparation

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. Remove all debris. The joint surfaces must be dry, clean and frost free. Remove all contaminants by rigorous wire brushing, grinding or grit blasting.

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.

Note: The use of a bond breaker is not required in expansion joints containing Hydrocell XL cellular polyethylene expansion joint filler. For construction or contraction joints a bond breaker tape or back-up strip should be used.

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

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Priming

Primer is not required unless the sealant is immersed, even intermittently, in service. In these cases Primer MS2 should be used.

Empty the entire contents of the hardener tin into the base tin, replace base tin lid. Mix thoroughly, by shaking for 2 minutes. Prime the joint face using a clean dry brush. Avoid over application of primer causing puddles in the bottom of the joint.

Nitoseal MS 300 should be applied between 30 minutes and 4 hours after priming.

If the joint is not sealed overnight the primer film should be removed by grit blasting or grinding and the joint reprimed.

The mixed Primer MS2 must be applied within one working day. Do not use part packs.

Application and finishing

Cut end off sachet and place in Fosroc GX Gun. Fit nozzle and cut at 45° to a suitable size. 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 Fosroc Equipment Cleaner, clean hands with a proprietary hand cleaner.

Limitations

- Do not apply at temperatures below 5°C.
- For permanently immersed conditions, use Nitoseal MS600.
- Not suitable for contact with bituminous materials.
- Whilst Nitoseal MS 300 has excellent adhesion to many types of residual sealant its use should not be considered a substitute for a good standard of joint preparation.
- In large joints ensure sealant is sufficiently cured before trafficking. In 40 mm joints this could be up to 10 days.

Estimating

Supply

Nitoseal MS300 : 10 no x 600ml sachets per box

Nitoseal MS2 Primer : 500 ml packs

Guide to sealant quantities

Joint size in mm	Litre per metre run	Metre per 600 ml sachet
6 x 10	0.060	10.00
12 x 10	0.120	5.00
20 x 20	0.400	1.50
25 x 12	0.300	2.00
30 x 15	0.450	1.33
40 x 20	0.800	0.751

0.5 litre of Fosroc Primer MS2 will be sufficient for 60 metres of joint. No allowance has been made for joint dimensions or wastage.

Precautions

Health and safety

Nitoseal MS300: This product is considered safe in normal use. However, with any material good hygiene practices should be followed e.g. keep out of eyes, do not consume, keep away from children and pets, wash hands thoroughly after use.

Storage

Shelf life 12 months

Storage conditions

Store in original containers in cool, dry conditions. Storage outside these conditions may reduce shelf life.

Fire

Nitoseal MS300 is non flammable while Primer MS2 is flammable. Please refer to the Material Safety Data Sheet for details.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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