

Nitoseal MS300



FM 610

Nitoseal MS300
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One part, floor joint sealant

Uses

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

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

Advantages

- Good adhesion to silicone/PU/polysulphide contaminant
- Suitable for saw cuts and perimeter joints
- Cures to a tough seal
- Abrasion resistant
- Withstands vehicular traffic
- Single component yet fast rate of cure
- Easy to apply at low temperature
- Primerless
- Can be applied to damp substrates

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 may be applied between 6 mm and 20 mm wide, for trafficked joints (up to 40 mm non-trafficked). In most cases it is recommended to form a sealing slot with a square cross-section. 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

Nitoseal MS300

Form	Paste
Colour	Grey
Movement accommodation factor	20%
Skinning time at 20°C/50% RH	25 minutes
Cure rate at 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 at 20°C	
Light traffic	24 hours
Heavy traffic	4 days
Flash point	>65°C

Application instructions

Preparation

Slots or cavities in concrete should preferably be sawn. After sawing all saw slurry must be flushed away and slot or cavity 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 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 and remove immediately after tooling is completed.



Priming

Primer is not required unless sealant is immersed in service.

For external movement joints and when sealant will be immersed regularly Fosroc Primer 19 is recommended.

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 Fosroc Primer 19 should be applied within one working day. Do not split packs of Fosroc Primer 19.

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

Not suitable for permanently immersed conditions.

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.



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Estimating

Guide to sealant quantities

Joint size in mm	Litre per metre run	Metre per 600 ml sachet
6 x 6	0.036	16.67
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

1 litre of Fosroc Primer 19 will be sufficient for 100 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 i.e. keep out of eyes, do not consume, keep away from children and pets and 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.

Packaging

Packed in 600 ml sachets. 10 no. sachets per box.
Primer 19 1 litre packs

Additional Information

Nitoseal MS300 is one product in the Fosroc range of specialist sealants. Other product ranges include concrete surface treatments, concrete repair and protection, architectural coatings, waterproofing, hydrophilic and PVC waterstops, grouts, floor toppings and concrete admixtures.