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Hot poured 'N1' polymer modified bitumen sealant

Uses

- For the sealing and maintenance of joints in concrete roads and asphalt surfacing

Advantages

- Rapid return to service
- Resists dirt and ingress of grit associated with trafficked pavements
- Good adhesion to concrete and asphalt surfaces

Description

Nitoseal MB333 is a hot poured, high extension polymer modified bitumen sealant complying with the requirements of BS 2499 : 1993 Type N1.

Nitoseal MB333 has a movement accommodation factor of 25% in butt joints. For optimum performance, consideration should be given to the possibility that the movement accommodation will not be evenly distributed between joints provided.

To ensure the sealant operates within the stated movement capacity of 25%, the width of the sealing slot should be designed in accordance with the recommendations of BS 6093.

Standards compliance

BS 2499 : 1993 Type N1.

Specification clauses

Where so designated on the drawing, joints are to be sealed using Nitoseal MB333 pavement sealant manufactured by Fosroc to BS 2499:1993 and independently certified to Type N1 of this specification. Joints shall be prepared and the sealant applied in accordance with the manufacturers current data sheet.

Joint size

Nitoseal MB333 can normally be applied to a maximum joint size of 30 mm width and 25 mm depth. Minimum joint width and depth dimensions should not be less than 13 x 15 mm respectively except for longitudinal joints.

Properties

Form:	Plastic solid
Colour:	Black
Movement accommodation factor (BS 6093):	Butt joints 25%
Application temperature:	Over 5°C
Safe heating temperature:	185°C
Pouring temperature:	165°C to 175°C
Chemical resistance:	Not resistant to petrol, diesel, lubricating oils or greases
Solids content:	100%
Density:	1.15 ± 0.05
Flash point:	Over 65°C

Applications instructions

Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from frost. Remove all dust and laitance by grit-blasting or grinding. Avoid polishing the joint sides when grinding. The prepared sealing slot should be blown out with dry, oil-free compressed air. BS 2499 : 1993 Pt 2 sets out a code of practice for the application and use of hot applied joint sealants for concrete pavements.

Priming

Prime concrete surfaces with Fosroc Primer B2 and allow the solvent to evaporate before sealing. Metal surfaces do not require priming but should be warmed with a gas torch immediately before sealing to promote adhesion.

Application

It is essential that the correct equipment is used for melting Nitoseal MB333 to ensure that the subsequent performance is not impaired by damage through over-heating or pouring at the wrong temperature. The heating apparatus must be fitted with a thermometer, an oil jacket and a means of stirring the molten compound.

Remove Nitoseal MB333 from outer cardboard packing. No cardboard should be put into the heater. Cut Nitoseal MB333 and inner plastic bag into small pieces, melt a few pieces in the melting vessel, and gradually add more to the molten material, stirring occasionally. Heat until Nitoseal MB333 reaches its correct pouring temperature of 165°C to 175°C.

Extra care must be taken in cold weather. The cold surfaces of the joints may cause rapid chilling of the compound. To help compensate for this, Nitoseal MB333 should be poured at the top limit of the pouring temperature range. Frost may give concrete a deceptively dry appearance.

Fosroc® Nitoseal MB333

formerly know as Nitoseal 333

Nitoseal MB333 should be poured to a level 5 to 7 mm below the traffic surface, or to the level specified.

Nitoseal MB333 which has been heated and then allowed to cool below 95°C must be discarded.

Cleaning

Equipment should be emptied immediately after use. Nitoseal MB333 which has been heated and allowed to cool completely must be discarded.

Ancillary materials

Fosroc Primer B2
Fosroc Fibreboard
Fosroc Equipment Cleaner

Estimating

Packaging

Nitoseal MB333 is supplied in 15 kg packs.

Guide to Nitoseal MB333 quantities

Joint size in mm	Kg per metre	Metres per 15 kg pack
10 x 10	0.12	120
10 x 13	0.15	100
10 x 15	0.18	83
10 x 20	0.24	62
13 x 15	0.23	65
15 x 15	0.26	57
15 x 20	0.36	40
15 x 25	0.43	35
20 x 20	0.48	31
20 x 25	0.58	26
25 x 25	0.72	21
30 x 25	0.86	17

Guide to Fosroc Primer B2 coverage

Joint depth	Metres of joint/5litres of primer
15mm	1000 - 1MB333
25mm	600 - 800
30mm	500 - 667

These are theoretical yields. No allowance has been made for variations in joint dimensions or wastage.

Storage

Nitoseal MB333 must be stacked flat not more than nine high and covered if stored outside.

Fosroc Primer B2 should be stored in accordance with the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972.

Limitations

Nitoseal MB333 is not suitable for use in contact with tar or pitch based materials.

Nitoseal MB333 should not be used in contact with potable water.

Not suitable for use with closed cell polyethylene joint backing - consult Fosroc for specific advice.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Fire

Fosroc Primer B2 is flammable. Keep away from sources of ignition. No Smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Additional information

Technical data — ancillary materials

Fosroc Primer B2

Flash point:	0°C
Specific gravity:	0.9
Coverage:	6-8 m ² /litre
Application temperature:	5°C to 50°C
Pack size:	5 litre

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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 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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