



Fosroc® Nitoseal MB175

*formally Plastiseal

Rubberised bitumen, mastic joint sealant compatible with bitumen based membranes

Uses

For sealing joints in retaining walls, roofing (sealing horizontal chases, flashings, gutterings and sheet laps), sealing terminations of bitumen based waterproofing membranes

Advantages

- Firm, flexible weather resistant seal
- Excellent slump resistance
- Suitable for permanent immersion in water
- Compatible with asphalt or bituminous surfaces
- Resistant to alkalis and sulphates
- Easy to apply

Description

A flexible, gun applied sealant based on a combination of bitumen and synthetic rubber. Dries to form a rubbery seal with excellent slump resistance. Nitoseal MB175 has good resistance to biodegradation, and is suitable for sealing lap joints in gutters and drainage channels where ponded water may reside. Also suitable for general sealing or pointing work in roofing and flashing applications.

Design Criteria

Joint configuration

Joints should be of a size to permit adequate application of Nitoseal MB175. Very narrow joints are difficult to seal effectively and for most applications 10 mm should be considered as minimum width. Maximum joint width should not exceed 40 mm. A minimum seal depth of 15mm should be maintained.

Movement accommodation factor

Joints should be designed so that total cyclic movement in tension or compression does not exceed 10% of the joint width at time of sealing. Total movement in shear should not exceed 20% of joint width at time of sealing.

Properties

Data quoted is typical for this product but does not constitute a specification.

Form:	Low slump semi stiff mastic compound	
Specific gravity:	1.4	
Colour:	Black	
Physical/chemical change:	Dries by solvent release	
Drying time (solvent release):	Minimum 2 weeks at 20°C, longer if lower temperature or sealant depth greater than 20 mm	
Application temperature:	5°C to 50°C	
Temperature range in service:	Minus 20°C - 80°C	
Chemical resistance to occasional spillage:	Dilute acids Dilute Alkalis Solvents Petrol/fuels Lubricants	Resistant Resistant Not resistant Not resistant Not resistant
Water immersion:	Before permanent immersion in water, Nitoseal MB175 must be left for a minimum period of 14 days to permit full evaporation of its solvent content, dependent upon ambient conditions and depth of Nitoseal MB175	
Movement accommodation factor (MAF):	± 5% for butt joints, 10% total ±10% for lap joints, 20% total	

Application Instructions

Joint preparation

Ensure joint surfaces are completely dry, clean and frost free. Joint backing must also be dry. Remove all dirt, dust, laitance and loose material by vigorous wire brushing.

Remove all rust, scale and loose surface coatings from metal surfaces. Remove any oil or grease with Solvent 10.

Where a neat joint finish is required, cover the joint face edges with masking tape before Nitoseal MB175 application and remove the masking tape immediately after the sealing work has been completed.

Priming porous surfaces

Non-moving joints normally do not require use of primer, however excessively porous surfaces or friable surfaces may need priming. Consult Parchem for advice.

Priming non-porous surfaces

Not normally required. Where necessary, metal surfaces should be cleaned using Solvent 10. Ferrous metals should

Fosroc® Nitoseal MB175

be treated with an anti-corrosion primer.

Application

Nitoseal MB175 may be applied by gun direct from the cartridge or by trowel. When loading sausage into gun ensure nozzle is cut to the required length and angle, and that the sausage membrane has been punctured.

Hold gun firmly against joint at a constant angle of about 45°. Guide nozzle along the joint gradually, ensuring good contact with joint surface. Never pump the trigger hard. Wipe the nozzle occasionally to ensure a clean extrusion.

After sealant has been applied, it should be tooled to a slightly concave surface with a wooden spatula, which may be moistened with White Spirits or similar solvent.

Clean up

To be removed from equipment immediately after use with a solvent such as Solvent 10 or White Spirits. Do not use solvents on hands, use suitable proprietary skin cleaner.

Water immersion

Nitoseal MB175 is suitable for permanent immersion in water, however, it is essential to allow full solvent evaporation from sealant prior to water immersion. This will take about 14 days at 20°C, longer if temperatures are lower or the Nitoseal MB175 is deeper than 20 mm.

Maintenance

Mechanical damage may be repaired at any time - ensure that surface is clean, dry and free of foreign matter to allow good adhesion of new to old Nitoseal MB175.

Estimating

Nitoseal MB175:	600 ml sausage
Solvent 10:	4 and 20 litre drums

Guide to Nitoseal MB175 quantities

Joint size width x depth (millimetres)	Length of joint sealed per 600ml sausage (metres)
10 x 20	3.0
15 x 15	2.6
15 x 20	2.0
20 x 20	1.5
20 x 25	1.2
20 x 30	1.0
25 x 25	1.0

Storage

12 months, stored in cool dry conditions in original, unopened containers when kept in dry conditions between 5°C and 27°C.

Limitations

Nitoseal MB175 should not be used in closed tanks where poor ventilation will seriously inhibit evaporation of solvent from the Nitoseal MB175. Nitoseal MB175 is not suitable for trafficked surfaces. Wide joints are liable to mechanical damage

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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