



# Nitoseal 118

## One-part polyurethane sealant

### Uses

For sealing vertical and horizontal movement joints in precast concrete panels and metal curtainwalls, window and door frame surrounds and other building components.

### Advantages

Nitoseal 118 is a one part polyurethane joint sealant which, on exposure to atmospheric moisture, cures to form a flexible rubber seal.

- One part gun application
- No mixing required
- Cures to a tough, flexible rubber
- Available in a range of colours
- No priming required on most substrates
- Excellent adhesion to most substrates

### Standards Compliance

US Fed Spec (TT-S-00230C, Class A)

ASTM C-920 (Type S, Grade NS, Class 25, T, NT)

### Description

Nitoseal 118 is a one part, gun applied, moisture activated polyurethane sealant. After application a skin forms rapidly leaving the body of the sealant to cure more gradually, the rate being dependent upon temperature, humidity and dimensions of seal.

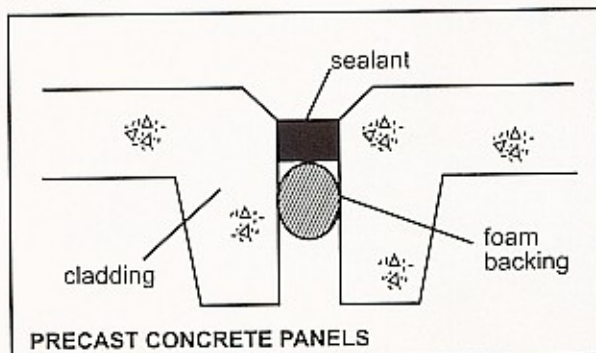
During the curing period, one part polyurethane sealants will accept limited movement normally associated with the applications described. Full cured sealant is capable of dynamic joint movement totalling 50% of original joint geometry ( $\pm 25\%$ ).

For joints where significant early cyclic movements can be anticipated, two part sealants should be used. Please contact your local Fosroc representative for specific requirements.

### Limitations

Over painting of sealants is not recommended because of the ability of paint films to accept movement. However, if definitely required, trials should be carried out to determine compatibility.

### Typical joint details



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## Properties

After 7 days cure at 25°C and 50% RH

Form	:	One-part, paste compound
Colours	:	Black, Grey, White. Special colours available upon request.
Movement accommodation factor (MAP)	:	Total joint movement for cured sealant: 25% for butt joints.
Physical or chemical change	:	Curing by atmospheric moisture presence.
Touch dry @ 25°C (ASTM C-679)	:	6 hours
Cure time @ 25°C	:	3 to 6 days
Application temperature	:	5 to 40°C
Hardness shore 'A' 25°C (ASTMC-661)	:	30 ± 5
UV Resistance	:	Good
Application depth thickness	:	6 to 20 mm

## Maintenance

No special requirement, any damage identified during normal building inspections should be repaired or replaced as appropriate.

## Specification Clauses

Joints shall be sealed using Nitoseal 118; ASTM C-920, single component sealant, manufactured by Fosroc.

Joints shall be prepared and the sealant applied in accordance with the manufacturer's current data sheet.

## Application Instructions

### Joint preparation

The joint surfaces must be clean, dry and frost free. Remove all dust and laitance by rigorous wire brushing, grinding or grit blasting. Remove all rust, scale and protective lacquers from metal surfaces. Remove any oil or grease with Fosroc Joint Cleaner and allow to dry completely.

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 Fosroc Hydrocell or Expandafoam cellular polyethylene expansion joint fillers. For construction or contraction joints a bond breaker tape or back up strip should be used.

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

### Priming

No priming is required for common substrates, such as concrete, aluminium, brick, granite. Some substrates may require cleaning or priming, such as certain high performance paints and architectural finishes. Consult your local Fosroc representative for specific requirement and specific applications. Laboratory testing and/or a job-site mock up may be required.

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## Application

Nitoseal 118 is supplied in a non-sag consistency which will gun easily with Fosroc caulking gun. Fill the joint completely and tool immediately to ensure full contact with the interfaces of the joint.

## Finishing

Nitoseal 118 should be tooled to a smooth finish. Good sealant practice encourages the use of masking tape which should be removed immediately after tooling.

## Cleaning

Clean equipment immediately after use with Fosroc equipment cleaner.

## Ancillary materials

Joint Cleaner  
Equipment Cleaner

## Estimating

### Packaging

Nitoseal 118 is supplied in cartons containing 20 x 600 ml foil sachets.

### Guide to Nitoseal 118 quantities

Joint size in mm	Litres per metre run	Metre run per 0.6 litre sachet
5x5	0.025	24.00
10x10	0.100	6.00
15x10	0.150	4.00
15x15	0.230	2.60
20x15	0.300	2.00
20x20	0.400	1.50

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

## Storage

Storage life of 9 months in original foil packs when kept in dry conditions between 5°C and 30°C.

## Precautions

### Health and Safety

**Nitoseal 118** : Contains resins which may cause sensitisation by skin contact. Avoid contact with skin and eyes and inhalation of vapour. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent, in case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - Do not induce vomiting.

**Fosroc Joint Cleaner**: Flammable liquid. Keep away from sources of ignition - No Smoking. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes and inhalation of vapours. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.

**Fosroc Equipment Cleaner**: Harmful by inhalation. Avoid contact with skin and eyes and inhalation of vapours. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas and keep away from sources of ignition and hot surfaces. - No Smoking.



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## Technical Support

Fosroc offers a comprehensive range of high performance, high quality construction products. Fosroc offers a technical support package to specifiers and contractor's which can include computer-aided design (CAD), standard details as well as on-site technical advice from staff with unrivalled experience in the industry at locations all over the world.

As well as joint sealants and ancillary products, Fosroc also manufactures a wide range of complementary products which includes waterstops, waterproofing membranes, grouting, anchoring and specialised flooring materials. In addition, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete is available. This includes hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings.

## Additional Information

Technical data - ancillary materials

	Equipment Cleaner	Joint Cleaner
Flash point:	Non-flamable	43°C
Density:	1.5 kg/litre	0.8 kg/litre
Storage life:	Indefinite	Indefinite
Pack size:	5 litres	2.5 litres



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### Important note

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