

High performance polyurethane sealant for joints in trafficable and water immersed applications

Uses

For sealing trafficable floor joints, metal or concrete water retaining structures, joints in concrete culverts and pipes, metal frame building assembly, cover plates and covering, bolted lap joints and sealing pipe penetrations in walls and floors.

Also suitable for use as a sealant or adhesive.

Advantages

- Ideal for wide floor joints
- Tough and abrasion resistant
- Suitable for foot and light vehicle traffic areas
- Excellent primerless adhesion
- Low stringing
- Low odour
- Weather resistant
- Easy to gun out
- Suitable for water immersed applications when used with appropriate primer (check application with Fosroc)
- Suitable for use in contact with drinking water

Standards Compliance

Nitoseal PU400 has been tested to comply with AS4020:2018. Refer to AWQC Report 314208.

Copies of the report are available on the Fosroc website.

Description

Nitoseal PU400 is a low modulus elastomeric joint sealant/adhesive based on polyurethane technology. Nitoseal PU400 uses a cure system reacting on exposure to atmospheric moisture. When cured it forms a waterproof and durable seal, which makes it ideal for exterior applications.

Design Criteria

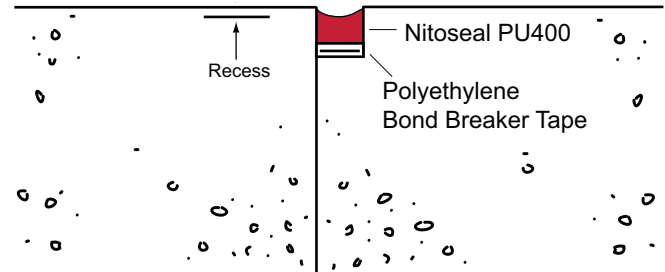
Nitoseal PU400 is designed for sealing movement joints between 10mm and 35mm wide however joints down to 5mm and up to 50mm wide can be sealed under suitable conditions.

The movement accommodation factor (MAF) of a joint sealant must be considered in the design width and spacing of movement joints in a structure.

The sealant Width to Depth ratio should be kept at a minimum depth of 10mm for joint widths between 10mm and 20mm and 2:1 for joint widths greater than 20mm.

For further details contact Fosroc for specific advice.

Typical construction joint



Properties

Form:	Smooth, non-slump paste
Movement accommodation factor:	± 12.5% (total 25%)
Tack-free time:	40 mins (+/-10 mins) at 23°C, 50% RH
Cure rate:	24 hours to 3 mm
Typical hardness:	40 Shore 'A' (ISO 868)
Modulus @ 100% extension:	0.30 - 0.40 MPa (ISO 8339)
Elongation at break:	>400%
Tensile strength:	2 - 2.5N/mm ²
Service temperature:	- 40°C to + 70°C
Application temperature:	5°C to 35°C
VOC content:	105.6g / litre

Application Instructions

Preparation

The joint surfaces must be thoroughly dry, clean and frost free. Remove all dirt, laitance, curing compounds, form release agents, loose materials and foreign matter from the joint faces. Remove all rust, scale and protective lacquers from metal surfaces. Non-porous surfaces should be degreased using Fosroc Solvent 10.

In all joints a bond breaker must be used to prevent sealant contact with the back of the joint, to allow optimum sealant performance.

Deep joints should incorporate a backing strip such as Expandafoam or Hydrocell to support the sealant while also acting as a bond breaker.

Priming requirements

Priming of porous substrates is always recommended, however good adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers. Adhesion is improved with use of a primer. To achieve optimum adhesion to concrete and other porous materials use Primer 21; on non-porous materials such as metals use Primer 4. Primer 13 must be used on porous surfaces if the Nitoseal PU400 is to be water immersed.

Fosroc® Nitoseal® PU400

Gun Loading

Nitoseal PU400 is applied using a suitable sealant gun. Insert the sausage into the gun, cut a slit in the top of the sausage, replace the end cap and apply the sealant.

Application

Extrude sealant firmly into joint to ensure complete contact with joint faces. Smooth finish if necessary with a spatula.

Cleaning

Clean tools immediately after use with Fosroc Solvent 10.

Limitations

Nitoseal PU400 is not suitable for sealing joints in swimming pools - Nitoseal SC600 is recommended for these applications (refer to Nitoseal SC600 TDS).

Do not apply Nitoseal PU400 to bituminous surfaces nor allow bitumen to contact Nitoseal PU400. Nitoseal MB175 is recommended for these applications (refer to Nitoseal MB175 TDS).

Paintability - although polyurethane sealants will generally accept painting with acrylic coatings, it is possible for plasticisers to migrate over time and stain the surface of the coating. Fosroc does not recommend painting over Nitoseal PU400 and recommends the use of Nitoseal MS250 in these applications.

Supply

Nitoseal PU400 is supplied in 600 ml foil sausages in cartons of 12.

Nitoseal PU400 Concrete Grey	FC920121-600ML
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Primer 13 is supplied in 2 component packs.
(Base and Hardener, supplied in the correct proportions
Complete units must be mixed to ensure correct curing)

Primer 13 (250ml pack):	Base:	FC965229-125ML
	Hardener:	FC965230-125ML

Primer 13 (1 litre pack MTO):	Base:	FC965229-500ML
	Hardener:	FC965230-500ML

Primer 21 (250ml):	FC965228-250ML
Fosroc Solvent 10 (4 litre):	FC600800-4L

Coverage

As a guide, one 600 ml sausage will supply 3 metres of 20mm x 10mm sealant bead

Storage

Shelf life is 18 months from date of manufacture when kept in its original, un-opened packaging and stored in dry conditions between +10°C and 25°C with 55% relative humidity, away from direct sunlight and moisture.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. 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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