

Nitoseal PU150 SL

Jet fuel resistant, cold applied, polyurethane based, single component joint sealant

Uses

For the horizontal sealing and maintenance of joints in concrete roads, concrete runways and hard standings. The excellent fuel resistance of Nitoseal PU150 SL makes it particularly suitable for sealing areas where fuel and oil spillage might occur such as:

- Aircraft fuelling areas
- Oil terminals
- Garage forecourts
- Parking and cargo areas
- Docks and harbours
- Warehouses

Advantages

- Cold applied - no heating equipment required
- Fuel, oil and hydraulic fluid resistant
- Tough rubbery seal, tolerant of climatic variations
- High movement accommodation
- Polyurethane based and single component
- Self leveling
- Excellent adhesion
- Resistance to UV radiation

Standard compliance

Nitoseal PU150 SL complies with TS 5926 EN 14188-2 (Type D) and ASTM C 920 (Type S, Grade P, Class 25, Use T).

Description

Nitoseal PU150 SL cold applied, single component, self levelling polyurethane sealant is designed for joints in concrete paved areas. The capability of accommodating cyclic movements is retained by Nitoseal PU150 SL throughout extremes of temperature conditions.

Nitoseal PU150 SL is resistant to fuel, oil and hydraulic fluid spillage, will not harden in cold weather nor become excessively softer pick up in hot conditions. Nitoseal PU150 SL has high durability and long service life which significantly reduces maintenance costs.

Specification

Where so designated on the drawing, joints are to be sealed using Fosroc Nitoseal PU150 SL, pavement sealant manufactured by Fosroc to TS 5926 EN 14188-2 (Type D) and ASTM C 920 (Type S, Grade P, Class 25, Use T). Joints shall be prepared and the sealant mixed and applied in accordance with the manufacturer's current data sheet.

Design Criteria

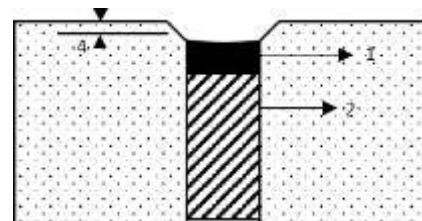
Nitoseal PU150 SL has a movement accommodation factor of 25% in butt joints. In designing joint spacing and dimensions, consideration should be given to the likely uneven distribution of movement.

To ensure the sealant operates within its stated movement capacity of 25%, the width of sealing slots should be designed in accordance with the recommendations of BS 6093. In trafficked areas the expansion joint width should not generally exceed 30 mm - for wider joints consult local Fosroc office.

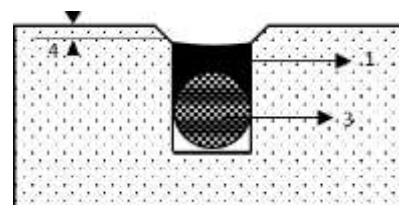
Joint depth: In trafficked areas the sealing slots should be constructed so that at no time during the anticipated operating cycle of the joint will the sealant protrude above the surface of the concrete pavement. It is necessary to recess the level of the sealant 5 to 8 mm below the pavement surface, dependent on the time of year and temperature prevailing at the time of sealing.

The width to depth ratio of the Nitoseal PU150 SL seal should be 1:1 to 1½:1 subject to a minimum 10 mm depth of sealant (Example, contraction joint: 15 mm wide x 13 mm depth; expansion joint: 25 mm wide x 20 mm depth).

Example of a sealed expansion joint in a concrete pavement subject to traffic is shown below.



Example of a sealed contraction joint in a concrete pavement subject to traffic is shown below.



- 1- Nitoseal PU150 SL
- 2- Flexcell or Bitucell compressible joint filler
- 3- Bond Breaker/Fosroc Baking Strip
- 4- Recess

Nitoseal PU150 SL

Properties

Base polymer	One component polyurethane
Solid Content	95%
Curing	33 mm/day
Density (TS 5926 EN 14188-2)	1,58 ± %0,05
Shore A Hardness (ASTM D2240)	20
MAF (Movement Accomodation Factor)	
TS 5926 EN 14188-2	% 25
Tensile Elongation	
TS 5926 EN 14188-2	% 650
Tensile Modulus (TS 5926 EN 14188-2)	
23°C	0,16 MPa
-20°C	0,57 MPa
Adhesion	
TS 5926 EN 14188-2	No damage
Hydrolysis Resistance	
TS 5926 EN 14188-2	Passed
Change in mass and volume after liquid fuel immersion TS 5926 EN 14188-2	
JET A-1	Passed
Antifreeze	Passed
Tack free	
TS 5926 EN 14188-2	2 hour
Self Leveling	
TS 5926 EN 14188-2	0,5 mm

Related Standarts : ASTM C-920, TS 5926 EN 14188-2, ISO 11600

Instructions for use

Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and frost free. 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.

Ensure that any expansion joint filler is tightly packed in the joint and at the required depth to provide the seal dimensions specified. Before sealing, insert a bond breaker caulked tightly into the base of the sealing groove to prevent the sealant from adhering to the base of the slot..

Priming

Nitoseal PU150 SL can be used in concrete joints without primer. However, in any case primer application minimizes the negative effects of possible contamination, concrete moisture and loose materials. Therefore; Nitoprime UR T or Primer 7E is recommended for all kind of surfaces.

Application

Material filled into a refillable type application apparatus with piston (sealant gun – applicator) and a nozzle with a diameter enabling it to enter into the joint must be fitted to the apparatus and while the sealant is applied this tip must be moved forward by sliding over the backer rod in the joint.

Thus it is ensured that no gap is left under the sealant and sufficient amount of sealant is used. After the application sealant surface can be finished by means of a spatula. In large joints the product can also be applied directly by pouring. Since the material that comes in contact with the air will harden, it is necessary to use the opened buckets as soon as possible and keep their mouths closed during the resting period. Application can be carried out directly with a spatula.

Cleaning

Clean equipment immediately after use with Fosroc Solvent 102. Remove Nitoseal PU150 SL from the hands with 'Keroclense 22', 'Swarfega' or similar industrial hand cleanser.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer onsite technical assistance, an AutoCAD facility and dedicateds pecification assistance in locations all over the world.

Supply	
Nitoseal PU150 SL	14 kg packs
Nitoprime UR T	4 kg packs
Primer 7E	1 lt packs
Fosroc Solvent 102	4 lt packs

Note : 14 kg of Nitoseal PU150 SL is 8,86 Litre

Consumption

Joint Size (mm)	Kg/Meter
10 x 10	0,158
13 x 13	0,267
15 x 15	0,356
20 x 15	0,474
20 x 20	0,632
25 x 20	0,790
25 x 25	0,988
30 x 25	1,185



Nitoseal PU150 SL

Storage

12 months in original containers stored in cool, dry conditions, i.e. not exceeding 25°C. Storage above this temperature may reduce shelf life.

Precautions

Health and safety

Nitoseal PU150 SL and Primer 7E may cause sensitisation by inhalation and skin contact. 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. Use only in well ventilated areas.

For additional information see relevant Product Safety Data Sheet.

Auxiliary Materials

Primer 7E	
Flash Point	23°C
Density	1,05 kg/litre
Consumption	8 – 10 m ² /litre
Application Temperature	+5°C - +50°C
Curing Time	20 – 60 minutes
Fosroc Solvent 102	
Flash Point	33°C

Refer to the Material Safety Data Sheet for further information

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- Hand-placed repair mortars
- Spray grade repair mortars
- Fluid micro-concretes
- Chemically resistant epoxy mortars
- Anti-carbonation/anti-chloride protective coatings
- Chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below

* Denotes the trademark of Fosroc International Limited
† See separate data sheet



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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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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