

BOSTIK SEAL 'N' FLEX 1 (2637)

POLYURETHANE JOINT SEALANT

PRODUCT DESCRIPTION

Bostik Seal 'N' Flex 1 (2637) is a one component, low modulus, polyurethane joint sealant which forms into a tough, flexible seal with excellent weatherability, that is able to retain its original properties even after years of exposure to the climate.

ADVANTAGES

- High durability
- Excellent weathering resistance
- Paintable (Please refer to Important Note)
- Non staining
- Can stand up to 50% total joint movement
- No mixing required
- Low modulus

AREAS OF APPLICATION

For sealing joints where a high performance joint sealant is required in areas such as:

- Expansion and construction joints in precast and insitu concrete
- Brick and block work
- Aluminium windows, metal curtain wall
- Marble, granite and sandstone
- GRC, Fibreglass & specialty panel systems
- Plasterboard

PHYSICAL PROPERTIES

Typical properties after application at 23°C and 50% RH

PROPERTY	RESULT
Appearance	Thixotropic paste
Cure method	Moisture Curing
Tack free time	7 - 8 hours
Curing rate	1 day = 1.6mm, 7 days = 8mm, 14 days = 10mm
Hardness (shore A)	21 approx. at 14 days
Modulus of elasticity	0.55 N/mm ² at 100% elongation
Chemical resistance	Good at short contact with diluted acids, alkalis & some solvents
Temperature resistance	-30°C to +70°C
Colour	Grey

PACKAGING

Bostik Seal 'N' Flex 1 (2637) is supplied in 600ml sausages, and packed in 20 pieces per carton.

COVERAGE

Below is the calculation formula for quantity required for coverage:

$$\frac{\text{Width (mm)} \times \text{Depth (mm)} \times \text{Length (m)}}{1000} = \text{litres} \quad \text{e.g. : } \frac{20\text{mm} \times 10\text{mm} \times 100\text{m}}{1000} = 20 \text{ litres}$$

INSTALLATION PROCEDURES

PREPARATION

Clean and dry all surfaces by removing foreign matter and contaminants such as oil, dust, grease, water, dirt, old sealants and any protective coating. Dust and loose particles should be blown out of joints or vacuum cleaned. Non porous surface may require preparation / priming. Cleaning solvents should not be allowed to dry or evaporate without being wiped with a clean, dry cloth.

PRIMING

For maximum performance on porous surfaces and in all immersed applications use Bostik N49 Primer prior to any application of Bostik Seal 'N' Flex 1 (2637).

APPLICATION

Bostik Seal 'N' Flex 1 (2637) should be dispensed from the sausage by means of a caulking barrel gun. Cut the end of the sausage and place in barrel gun and screw the end cap and nozzle on to the barrel gun. Using the trigger, extrude the sealant, to stop, depress using the catch plate. Apply the sealant in a continuous bead using enough pressure to properly fill the joint. Smooth the sealant with a small steel trowel or with a flexible closed cell polyethylene trowel to the required surface level.

JOINT DESIGN GEOMETRY

Ensure maximum adhesion to the bond face use a width to depth ratio of 1:1 for joint widths up to 12mm and wide joint 2:1 for joint widths from 12mm to 50mm.

CLEANING

Clean up uncured material and equipment immediately after use with an applicable cleaning solvent. Avoid contact of solvents on skin.

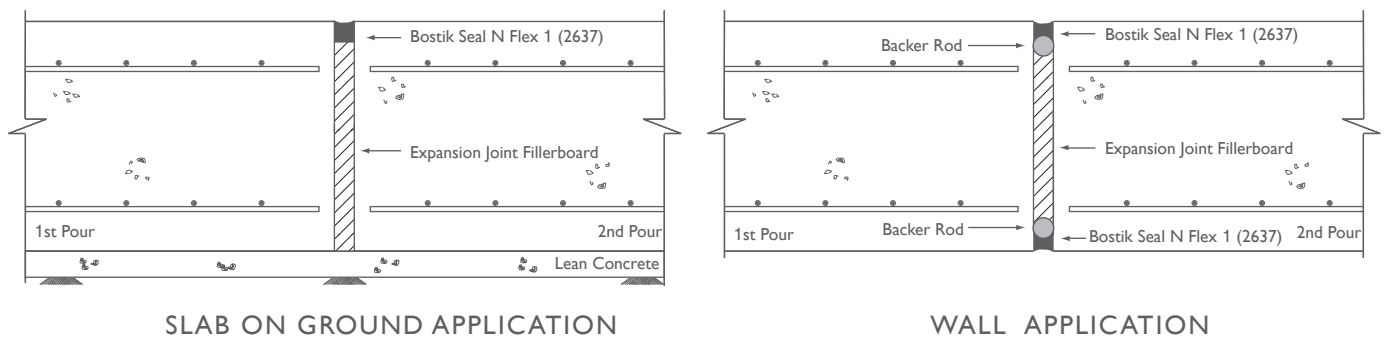
CONSTRUCTION SEALANT APPLICATION PROCEDURES

Bostik Seal 'N' Flex 1 (2637) is especially suitable for vertical joint sealing or in flooring applications such as saw cut jointing. More joint movement can be accommodated in a thin bead of sealant than a thick bead. The ratio of joint width of sealant to depth should be 2:1. The use of bond breaker prevents undesirable three-sided adhesion. Open cell polyurethane foam or closed cell polyethylene foam rod is the recommended backup material to control sealant geometry.

Install back up material or joint filler, as specified. Apply Bostik Seal 'N' Flex 1 (2637) continuously using positive pressure to properly fill and seal the joint. Tool the sealant with adequate pressure to spread the sealant against the back up material and onto the joint sides. Excess sealant should be wiped from all surfaces while still uncured. Remove any masking tape that has been positioned prior to sealant curing / skinning.



TYPICAL APPLICATIONS



CONSTRUCTION ADHESIVE APPLICATION PROCEDURES

Bostik Seal 'N' Flex 1 (2637) does not need to be applied to both surfaces to bond, but both surfaces must be prepared in accordance with preparatory work.

Apply in beads or daubs to the prepared substrate. Materials being adhered can be bonded immediately or left open for up to 15 minutes after application prior to bonding. If no mechanical fixing is to be used in conjunction with adhesive, clamping is necessary until full cure is achieved.

Use only enough sealant to achieve adequate bond (dependant on surface texture). Excess sealant can be removed by dry cloth or solvent wipe before curing.

If adhesive is to be exposed, smooth off with spatula or putty knife to flush finish.

IMPORTANT NOTE

Bostik Seal 'N' Flex 1 (2637) is not suitable to be used in chlorinated water such as swimming pools, spas etc. Its temperature resistance is between -30°C and +70°C. Do not allow any bitumen to contact Seal 'N' Flex 1 (2637). It should not be constantly immersed in salt water. It is advised not to apply Bostik Seal 'N' Flex 1 (2637) on cement based substrates within 14 days of casting or used in trafficable joints greater than 10mm in width.

Bostik Seal 'N' Flex 1 (2637) can be painted after full cure, but coatings containing high solvent content or high oil based undercoats may cause the surface of the sealant to react creating a tacky surface to develop. High build coatings with some elastomeric ability have the capability to absorb low movement without significant distortion of the paint film.

STANDARDS

Bostik Seal 'N' Flex 1 (2637) conforms to

- DIN 18540 (German), as a low modulus external joint sealant
- ASTM C.920-87 & 98 (USA) as Type S, Grade NS, Class 25, use NT, G, A, M, & O as an external joint sealant

STORAGE AND SHELF LIFE

Store between 5°C and 30°C, out of direct sunlight. Shelf life is one year in original unopened cartridge or sausage.

WRITTEN SPECIFICATION

Where shown in the drawings, the joint sealant must be Bostik Seal 'N' Flex 1 (2637) polyurethane joint sealant as supplied by CORKJOINT. The application/installation of the product must be in accordance with the manufacturer's recommendations and Bostik N49 Primer must be used in conjunction with the application of the joint sealant.

HEALTH AND SAFETY INFORMATION

As with all construction chemical products caution should be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Material Safety Data Sheet (MSDS), which is available upon request.

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and / or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and / or oral recommendations, or from any other advice offered by the Company. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from the recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in this brochure may change at any time without notice.

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