



SEAL 'N' FLEX[®] 1

ONE COMPONENT, CLASS-A POLYURETHANE SEALANT

14th November 2017

YOUR SMART ADVANTAGES

- Low modulus
- ±50% joint movement
- Excellent durability
- One component, no mixing required
- Acoustic rated
- Non staining
- Paintable*
- Available in 12 popular colours
- Made in Australia

USES

Bostik Seal 'N' Flex[®] 1 is a low modulus, one component, Class-A polyurethane sealant. When cured it will form a tough and flexible seal capable of cyclic expansion and compression movement of 100% (±50%) of the original installed joint width. Bostik Seal 'N' Flex 1 can be used on:

- Insitu concrete and render
- Precast and tilt up panels
- Brickwork and block work
- Plasterboard face and paper lined recessed edges
- Fibre cement sheet
- Aluminium windows
- Granite, sandstone and marble
- GRC, fiberglass and mostly specialty panel systems

CLASSIFICATION STANDARDS

- CSIRO RILEM Long - Term Sealant Durability Study DBCE Doc. 97/196 (M)
- DIN 18540 (German) and SNJF (French) approval as a low modulus external joint sealant
- AS4020 Potable Water
- ASTM C.920-87 & 98 (USA) as Type S, Grade NS, Class 50, use NT, G, A, M, & O as an external joint sealant.
- AS1157-1972 Resistance to fungal growth. Ministry of Agriculture and fisheries New Zealand (Meat, fish, Game, Poultry- All areas)

PRODUCT CHARACTERISTICS

Colours	12 popular colours
Viscosity	Non-sag, smooth thixotropic paste
Cure method	Moisture curing
Chemical resistance	Dilute acids, alkalis and some solvents. Intermittent contact with petroleum and diesel.
Coverage	Refer to coverage table

Application temperature	5 to 35°C
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Product codes

300ml cartridge/20 per carton

White	30840067
Grey	30803243
Black	30804581

600ml sausage/20 per carton

White	30840033
Grey	30840034
Black	30840036
Bahama Beige	30800511
Bronze	30840047
Classic Bone	30604591
Epping Grey	30800959
Limestone	30840037
Manilla Sand	30840052
Off White	30800963
Redwood	30800964
Sandstone	30800946

TYPICAL PERFORMANCE DATA (approx.)

Service temperature	-40 to 75°C
Tack free time	6-12 hours
Cure rate	2mm/24 hours on porous substrates
Full cure	7 days on porous substrates. Allow 14 days in joints over 20mm wide.
Specific gravity	1.25 g/ml
Shore A hardness	30
Tensile strength	> 1.3 N/mm ²
Elongation at break	> 900%
Total joint movement	± 50%
Maximum joint width	Up to 50mm

BOSTIK SEAL 'N' FLEX® 1

DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting www.bostik.com.au or by scanning the relevant QR code on pack

SURFACE PREPARATION

1. Clean and dry all surfaces by removing foreign matter and contaminants such as laitance oil, dust, grease, frost, water, dirt, old sealants, curing agents and any protective coating
2. Dust and loose particles should be vacuum cleaned.

Priming

Priming of all surfaces is recommended to achieve stated performance properties.

DO NOT USE METHYLATED SPIRITS OR TURPS.

Porous substrates:

1. Absorbent or porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate
2. For maximum performance on porous surfaces and in all periodically immersed and submerged applications, use Bostik N49 Primer (refer to the Bostik N49 Primer Technical Data Sheet)
3. Porous substrates not subject to immersion or ponded water e.g. vertical expansion joints in concrete or masonry structures so not require priming if clean, dry and uncontaminated

Non-porous substrates:

1. Non-absorbent substrates will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate.
2. Bostik N40 Primer is recommended for non-porous plastic and metal substrates e.g. u-PVC outlets and pipe work, brass, copper fittings, stainless steel trays and flashings (refer to the Bostik N40 Primer Technical Data Sheet).
3. Prime all plastics and metallic non-porous substrates with Bostik N40 Primer using the two-cloth method described in the Bostik N40 Primer Technical Data Sheet.

APPLICATION

Bostik Seal 'N' Flex 1 should be dispensed from either the cartridge or sausage by means of a caulking gun.

Cartridge application:

1. Pierce the membrane at the top of the top of the cartridge and screw on the nozzle
2. Cut the nozzle to give the required angle and bead size
3. Place the cartridge in a caulking gun and squeeze the trigger

Sausage application:

1. Clip the end of the sausage and place in a barrel gun
2. Screw the end cap and nozzle onto the barrel gun
3. Use the trigger to extrude the sealant. To stop; depress the catch plate.

Apply Bostik Seal 'N' Flex 1 in a continuous operation using enough pressure to properly fill the joint. Tool off the surface of the sealant with an appropriate sized spatula or trowel. Apply sufficient pressure to leave a smooth, consistent surface and ensure maximum contact with the interface of the joint

Joint sealing hints:

- Always use a backing rod for correct sealant geometry and contact with the substrate
- Primer after the installation of the backing rod
- Ensure maximum adhesion to bond face
- Minimum allowable joint depth is 6mm
- Maximum allowable joint width is 50mm
- Depth to width ration of 1:1 up to 12mm width and 1:2 from 12-50mm width
- Tool sealant to achieve concave shape

W = between 12 to 50mm



COVERAGE

The estimated lineal metre yield per pack size is recommended in the following table. No allowance has been made for waste or irregular joint geometry.

JOINT SIZE (D x W)	5mm x 5mm	10mm x 10mm	10mm x 20mm	25mm x 50mm
300ml Cartridge	10	3	1.5	0.24
600ml Sausage	20	6	3	0.48

W=Joint width (mm), D=Joint depth (mm), L=Length (metres)

CLEANING

The use of protective goggles, barrier creams and ointments, gloves and protective clothing is recommended. Cured material can be removed by mechanical means only. Clean off uncured material and equipment immediately after use using Bostik Handy Wipe towels to remove adhesive from skin.

*PAINTABILITY

Bostik Seal 'N' Flex 1 can be painted after a minimum of 7 days. Coatings containing solvents such as enamels, oil based or other coatings may cause the surface of the sealant to react creating a tacky surface. Surface coatings may discolour in direct contact with cured Bostik Seal 'N' Flex 1. Surface coatings may crack and craze as a result of cyclical movement of supporting sealant joint. A field test is recommended to ensure compatibility of any coating with Bostik Seal 'N' Flex 1.

LIMITATIONS

Not recommended for:

- Use in chlorinated water such as swimming pools, spas, etc.
- Use on any material containing bitumen
- Constantly immersed salt water
- Use for glazing applications
- Application to cement based substrates within 28 days of initial pour or set
- Use in trafficable joints
- Applied in temperatures below 5°C or above 35°C
- Exposure to water and/or alcohol before it has completely cured
- Finished using wet tooling techniques, using solvents, water or detergent/soap solutions
- Applied to joints less than 5mm in width and 6mm in depth
- Applied on joints larger than 50mm

Bostik Seal N Flex 1 White may yellow on the surface if exposed to strong natural or artificial UV light for prolonged periods of time.

Composite metallic façade systems can be subject to significant daily cyclical movement due to temperature variations. Crimping and bulging of installed sealant before full cure may permanently deform the sealants finish prior to full cure, especially on Northern and Western elevations in full sunlight. Refer to Bostik V70 Silicone Technical Data Sheet as a recommended metal façade sealant.

BOSTIK SEAL 'N' FLEX® 1

STORAGE AND SHELF LIFE

Store in cool (between 5°C to 30°C) dry, well-ventilated area out of direct sunlight. Store away from oxidizing agents and acids. Shelf life is 24 months in original unopened container.

DISPOSAL

Empty cartridges and foils may be disposed via local landfill. If spilt, absorb with clay, sand or earth. Collect and seal in properly labeled metal container. Dispose of according to local authority regulations. Do not dispose of down drains or into local waterways.

VOC INFORMATION

74g/litre

HEALTH AND SAFETY

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE AN ALLERGY OR ASTHOMATIC SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

Keep out of reach of children. Read label before use. Avoid breathing dust, fume, gas, mist, vapours or spray. Wash hands, face and all exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective clothing, gloves, eye/face protection and suitable respirator. In case of inadequate ventilation wear respiratory protection.

Fire: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Spills and leaks: Clear area of all unprotected personnel. Slippery when spilt. Wear protective equipment. Absorb with sand or soil. Collect and seal in properly labeled drums. Dispose of contents/container in accordance with local, regional, national and international regulations.

If poisoning occurs, contact Poisons Information Centre.

FIRST AID

Swallowed: Do not induce vomiting, give a glass of water and seek medical advice.

Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If irritation occurs, seek medical advice

Inhaled: Remove from contaminated area. Apply artificial respiration if not breathing. Seek medical advice.

Eyes: Hold eyes open and flood with water for at least 15 minutes and see doctor.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.

BOSTIK HOTLINE

Smart help 1800 898 551



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