



Technical Data Sheet

Date: 7 February 2012



SEAL 'N' FLEX 1

POLYURETHANE CONSTRUCTION JOINT SEALANT

DESCRIPTION

Seal "N" Flex 1 is a low modulus, one component, Class A polyurethane sealant. When cured it will form a tough, flexible seal capable of cyclic expansion and compression movement of 50%(+ 25%) of the original joint width.

Seal 'N' Flex 1 is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weatherability enables it to retain its original properties after years of exposure, refer to the CSIRO RILEM LONG- TERM SEALANT DURABILITY STUDY DBCE Doc. 97/196 (M).

RECOMMENDED USES

- In situ concrete & render
- Precast and tilt up panels
- Brick & block work
- Plasterboard face and paper lined recessed edges
- Fibre cement sheet
- Aluminium windows
- Granite, sandstone and marble
- GRC, Fibreglass & most other specialty panel systems

CLASSIFICATION STANDARDS

- CSIRO RILEM LONG-TERM SEALANT DURABILITY STYDY DBCE DOC. 97/196 (M)
- ISO 11600 Class F-25LM
- DIN 18540 (German) and SNJF (French) approval 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
- AS4020 Potable water
- AS1157-1972 Resistance to fungal growth
- Ministry of Agriculture and fisheries New Zealand (Meat, fish, Game, Poultry – All areas)

FEATURES & BENEFITS

- Low modulus 50%(+ 25%)
- Excellent durability
- One component, no mixing required
- Colour range

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Auckland Site

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- Acoustic rating
 - Paintable (refer limitations)
 - Non staining
-

APPLICATION INSTRUCTIONS

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. Dust and loose particles should be vacuum cleaned. Priming of all surfaces is recommended to achieve stated performance properties. DO NOT USE METHYLATED SPIRITS OR TURPS.

PRIMING

Porous Substrates

- Absorbent or porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate.
- For maximum performance on porous surfaces, and in all periodically immersed applications use Bostik N49 Primer, or one coat of Bostik MVP 525.
- Porous substrates not subjected to immersion or ponded water, e.g. vertical expansion joints in concrete or masonry structures, do not require priming if clean, dry and uncontaminated.

Non Porous Substrates

- No 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.
- Bostik MVP525 is recommended for non porous or burnished/overworked concrete substrate as per the Bostik MVP525 Technical Data Sheet.
- Bostik N40 Primer is recommended for non porous plastic and metal substrates.
- Prime all plastic and metallic non porous substrates using Bostik N40 Primer using the two cloth method described below.
- E.g. UPVC outlets and pipework, brass, copper fittings, stainless steel trays and flashings

Two cloth method – N40 Primer application

- Dampen a clean and dry cloth with Bostik N40 Primer and spread evenly over the non porous substrate using a cleaning/rubbing action
- With a second clean and dry cloth, immediately wipe all primer residues off with a buffing action.
- Allow the substrate to dry for a minimum of 5 minutes before installing Bostik Seal 'N' Flex FC.
- Do not leave the primer longer than 4 hours before applying sealant/adhesive
- Clean and re-prime if the primed surface is contaminated before Bostik Seal 'N' Flex FC is applied.

APPLICATION

Seal 'N' Flex 1 should be dispensed from either the cartridge or sausage by means of a caulking gun (available from Bostik). Cut the supplies nozzle to give the required angle and bead size. Pierce the membrane from the top of the cartridge and screw on the supplied nozzle. Place the cartridge in a Bostik applicator gun and squeeze the trigger. For sausages, a barrel gun is required, clip the end of the sausage and place in barrel gun. Screw end cap and nozzle on to barrel gun. Using the trigger extrude the sealant, to stop depress using the catch plate. Apply Seal 'N' Flex 1 in a continuous bead using enough pressure to properly fill the joint. Tool off surface of 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 backing rod for correct sealant geometry and contact with the substrate
- Prime prior to the installation of the backing rod

- Ensure maximum adhesion to bond face and depth to width ratio of 1:1 to 12mm and 2:1 from 12– 50mm
- Tool sealant to achieve concave shape

PRECAUTIONS

Seal 'N' Flex 1 should not be:

- Used in chlorinated water such as swimming pools, spas etc.
Used on any material containing bitumen.
- Constantly immersed in salt water
- Used for glazing applications
- Applied to cement based substrates within 28 days of initial pour or set.
- Used in trafficable joints
- Applied at temperatures below 5°C or above 35°C
- Exposed to water and alcohol before it has completely cured.
- Finished using wet tooling techniques, such as soapy water
- Applied less than 5mm in width
- Applied less than 6mm in depth
- Seal 'N' Flex 1 White may yellow on the surface if exposed to strong natural or artificial UV light for long periods.
- Composite metal 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 sealant finish prior to full cure, especially on northern and western elevations in full sunlight. Refer to Bostik V70 Silicone TDS for recommended metal façade sealant applications.
- Maximum joint width on vertical substrates is 20mm
- Maximum joint width on horizontal substrates is 50mm
- Allow 14 days for full cure in joints over 20mm in width

PAINTABILITY

Bostik Seal 'N' Flex 1 can be painted after full cure. 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 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 the coatings with Seal 'N' Flex.

COVERAGE

The estimated quantity below is the approximate lineal metre yield, per pack size for recommended joint dimensions. No allowance for waste or irregular joint geometry.

Size	5mm x 6mm bead	10mm x 10mm	20mm x 10mm
300mL	10	3	1.5
600ML	20	6	3

Calculation formula: $(W \times D \times L)/1000 = \text{Litres}$
 Litres/0.3 = Number of 300ml cartridges
 Litres/0.6 = Number of 600ml sausages

W = Width (mm) D – Depth (mm) L = Length (metres)

PACKAGING

Seal "N" Flex 1 is supplied in 300ml cartridges and 600ml sausages, 20 per carton.

ITEM NO	SIZE	COLOUR
256158	300ml Cartridge	Grey
246204	300ml Cartridge	Black
246220	300ml Cartridge	White
216275	600ml Sausage	Grey
217824	600ml Sausage	Limestone
217808	600ml Sausage	Black
216267	600ml Sausage	White
217751	600ml Sausage	Bahama Beige
226203	600ml Sausage	Sandstone
226688	600ml Sausage	Redwood
218626	600ml Sausage	Off White
232440	600ml Sausage	Manilla Sand
242322	600ml Sausage	Classic Bone
232556	600ml Sausage	Epping Grey

PROPERTIES

Typical properties after 7 days cure at 25°C and 50% RH

Appearance	Non-sag smooth thixotropic paste
Colour	
Cure method	Moisture curing
Tack free time	6 – 12 hours
Rate of cure	2mm/24h on porous substrates
Full Cure	7 days on porous substrates
Chemical resistance	Resistant to dilute acids, alkalis and some solvents. Intermittent contact with diesel and petroleum
In service temperature range	-40 to +70°C
Shore 'A' Hardness	30
Specific gravity	1.23
Elongation at break	>650%
Application temperature	5 to 35°C

CLEANING

Clean up uncured material and equipment immediately after use using Bostik 9907 solvent. Do not use solvents on skin.

STORAGE

Store between 5°C and 30°C. Shelf life is two years in original unopened cartridge or sausage.

HEALTH & SAFETY

- On contact, uncured sealant causes irritation. Gloves and protective goggles should be worn during application and use.

- Avoid contact with skin, eyes and avoid breathing in vapour.
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do not induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- Full details are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that the appropriate Safety Data Sheets are read by all concerned. Visit www.bostik.co.nz for copies.

VERSION

V1 7 November 2012 Localisation

This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Consumer Guarantees Act 1993. Sale of the product by Bostik is subject to the Bostik New Zealand Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.co.nz

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