

technical data sheet

SEAL 'N' FLEX 1

Polyurethane Construction Joint Sealant

PRODUCT 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% (\pm 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

Sealing joints in:

- In situ concrete
- Precast and tilt up panels
- Brick & blockwork
- Plasterboard
- Aluminium windows
- Granite, sandstone and marble
- GRC, Fibreglass & Specialty panel systems
- Metal curtain wall
- Water tanks

FEATURES & BENEFITS

- Low modulus 50% (\pm 25%)
- Excellent durability
- One component, no mixing required
- Australian made
- Colour range
- Acoustic rating
- Paintable (refer limitations)
- Non staining

APPROVALS AND STANDARDS

- CSIRO RILEM LONG - TERM SEALANT DURABILITY STUDY 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 1992 Potable water
- AS1157-1972 Resistance to fungal growth
Ministry of Agriculture and fisheries New Zealand (Meat, fish, Game, Poultry- All areas)

PERFORMANCE PROPERTIES

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

Appearance	Non-sag smooth thixotropic paste
Cure Method	Moisture Curing
Tack free time	6-12 hours
Rate of cure in mm/24h	2
Hardness shore A	30 approx.
Tensile strength	> 1.3 N/mm ²
Chemical resistance	Resistant to dilute acids, alkalis & some solvents. Intermittent contact with diesel and petroleum.
Elongation at break	>900%
Application Temperature	5°C to 35°C
Temperature resistance	-40°C to +70°C
Full cure	7 days on porous substrates

PACKAGING

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

ITEM NO	SIZE	COLOUR
246158	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

COVERAGE

The coverage below is the approximate lineal metre coverage per pack size.

SIZE	6mm x 6mm	10mm x 10mm	20mm x 10mm
300ml (ctg)	8.3	3	1.5
600ml (sge)	16.7	6	3

Calculation formula $\frac{W \times D \times L}{1000} = \text{Litres}$

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

APPLICATION INSTRUCTIONS

Preparation:

Clean and dry all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, dirt, old sealants and any protective coating. Dust and loose particles should be blown out of joints or vacuum cleaned. Non porous surfaces may require preparation / priming, refer primer selection guide. 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.

5077 cleaner / N40 primer is recommended for non-porous surfaces. Prior to any application of Seal 'N' Flex 1 refer to primer selection guide.

APPLICATION

Seal-N-Flex 1 should be dispensed from either the cartridge or sausage by means of a caulking gun (available from Bostik). Pierce the membrane at the top of the cartridge and screw on the nozzle. Cut nozzle to give the required angle and bead size. 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.

JOINT SEALING HINTS

- Prime prior to the installation of the backing rod
- Always use backing rod for correct sealant geometry
- Ensure maximum adhesion to bond face and depth to width ratio of 1:1 to 12mm and 2:1 from 12mm to 50mm
- Tool sealant to achieve concave shape

W = between 12 to 50mm



MIXING

No mixing is required for Bostik Seal-N-Flex 1

PRECAUTION

Seal 'N' Flex 1 should not be;

- Used in chlorinated water such as swimming pools, spas etc.
- Do not apply Seal 'N' Flex 1 to any material containing bitumen. Do not allow bitumen to contact Seal 'N' Flex.
- Constantly immersed in salt water
- Used for glazing applications
- Applied to cement based substrates within 28 days
- Used in trafficable joints greater than 10mm in width
- Applied at temperatures below 5°C.

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. A field test is recommended to ensure compatibility of the coatings with

Seal 'N' Flex 1 (refer PATS).

PA.T.S (Pretested Adhesion To Substrate)

Bostik offer a service to eliminate potential field problems by pre-testing Bostik sealants for adhesion with samples of substrates and or coatings to be applied. Consult a Bostik representative for further information.

HEALTH AND 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.
- For more detailed information refer to Material Safety Data Sheet.

CLEAN-UP

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.

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The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Findley Australia be liable to anyone except for replacement of the products or refund of the purchase price.

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