Seal ‘N’ Flex 1

ONE COMPONENT, CLASS – A POLYURETHANE SEALANT

DESCRIPTION

Bostik 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 & compression movement of 100% (±50%) of the original installed joint width.

RECOMMENDED 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% (?0%) 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 & marble, GRC, fiberglass and mostly specialty panel systems.

FEATURES & BENEFITS

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.

APPROVALS / STANDARDS

CSIRO RILEM LONG - TERM SEALANT
DURABILITY STUDY DBCE Doc.97/196(M).
ISO 11600 - Class F-25 LM.
DIN 18540 (German), SNJF (French) & BS 4254-1983 approval as a low modulus external joint sealant.
ASTM C.920-87 & 98 (USA) as Type S, BS 5212 Part II 1990, Grade NS, Class 25, G,A,M & O as an external joint sealant.
AS4020 1992 Potable water approval.
AS1157 - 1972 Resistance to fungal growth Ministry and Agriculture and Fisheries New Zealand (Meat, Fish, Game, Poultry).

Surface Preparation

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

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

Porous substrates: Absorbent or porous substrates will allow a bead of water to easily soak into & wet out the surface of the substrate. For max. performance on porous surfaces & in all periodically immersed and submerged applications, use Bostik N49. Porous substrates not subject to immersion or ponded water.

Non-porous substrates: 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. Bostik N40 Primer is recommended for non-porous plastic & metal substrates. Prime all plastics & metallic non-porous substrates with Bostik N40 Primer using the two-cloth method.

APPLICATION PROCEDURE

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 & 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

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	12	3	1.5	0.24
600ml Sausage	24	6	3	0.48

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

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

PERFORMANCE PROPERTIES	
Colours	Grey / White / Black
Viscosity	Non-sag, smooth thixotropic paste
Cure method	Moisture curing
Chemical resistance	Dilute acids, alkalis & some contact with petroleum & diesel
Application temperature	5 to 35°C
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%

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.

PACKAGING

300ml Cartridge, 600ml sausage.

STORAGE & SHELF LIFE

Store between 5° C to 30°C. Shelf life 24 Months in original unopened cartridges or sausages.

BOSTIK HOTLINE

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