

SEAL N FLEX 1

HIGH PERFORMANCE POLYURETHANE JOINT SEALANT

Date: 18 December 2014

YOUR SMART ADVANTAGES

- Low modulus 100% (\pm 50%)
- Excellent durability
- One component, no mixing required
- Acoustic rating
- Paintable (refer Limitations)
- Non staining
- Flexible seal capable of cyclic expansion and compression movement of 100% (\pm 50%) of the original installed joint width
- Resistance to normal weathering conditions

USES

- 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 most specialty panel systems

PRODUCT CHARACTERISTICS

| | |
|---|-------------------------------------|
| Colour | Black, Grey and White |
| Tack Free Time | 6-12 hours |
| Cure method | Moisture curing |
| Full cure | 7 days on porous substrates |
| Cure rate | 2mm / 24 hours on porous substrates |
| Application temperature | 5°C to 35°C |
| Product code - 300g cartridge/20 per carton | |
| Black | 30804581 |
| White | 30804612 |
| Grey | 30804603 |
| 600ml Sausage/20 per carton | |
| Black | 30804435 |
| White | 30804423 |
| Grey | 30804436 |

| | |
|----------------------|----------|
| N40 primer | 30804574 |
| 1L Tin/12 per carton | |
| N49 Primer | 30804493 |
| 1L Tin/12 per carton | |

TYPICAL PERFORMANCE DATA (approx.)

| | |
|------------------------------|--|
| Shore "A" hardness | Approx. 30 |
| In service temperature range | -40°C to +70°C |
| Tensile strength | >1.3N/mm ² |
| Elongation at rupture | >900% |
| Specific gravity | 1.25 g/ml |
| Chemical resistance | Resistant to dilute acids, alkalis and some solvents. Intermittent contact with diesel and petroleum |

APPROVALS/CLASSIFICATION

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| CSIRO RILEM LONG-TERM SEALANT DURABILITY STUDY DBCE Doc. 97/196M |
| ISO 11600 - Class F-25LM |
| DIN 18540 and SNJF - low modulus external joint sealant |
| ASTM C920.87 AND 98 as Type S, Grade NS, Class 25, use NT, G, A, M and O as external joint sealant |
| AS4020 Potable water |
| AS1157-1972 Resistance to fungal growth |
| NZ Food Safety Authority - Approved Maintenance Compound (Non-Dairy). |

DIRECTIONS FOR USE

Test and evaluate the material first to ensure it is suitable for your application. Joint design must conform to manufacturer's recommendations and NZBC requirements. Compatible backing rods or release tape must be used to ensure two sided adhesion only in joints and limit joint depth. Recommended joint width to depth ratios:

Seal N Flex 1

| Joint Width - mm | Joint Depth - mm |
|------------------|------------------|
| ≤12 | 6 |
| 13 ≤ and ≤ 30mm | Width/2 |
| >30mm | 15mm |

SURFACE PREPARATION

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. Do not use methylated spirits or turps. For porous surfaces and in highly humid or tropical environments, use Bostik N49 primer. Bostik N40 primer is recommended for non-porous surfaces.

APPLICATION

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

- Cartridge – 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.
- 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 Bostik 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. DO NOT use wet tooling techniques.
- 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 after the installation of the backing rod
- Ensure maximum adhesion to bond face
- Minimum allowable joint depth is 6mm
- Minimum allowable joint width is 5mm
- Depth to width ration of 1:1 up to 12mm width, and 1:2 from 12 – 50mm width
- Tool sealant to achieve concave shape

LIMITATIONS

Bostik Seal N Flex 1 must 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/or alcohol before it has completely cured
- Finished using wet tooling techniques, using solvents, water or detergent / soap solutions
- Applied less than 5mm in width
- Applied less than 6mm in depth
- 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
- Used where the substrate is incompatible with plasticised sealants
- Bostik Seal N Flex 1 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 sealant finish prior to full cure, especially on northern and western elevations in full sunlight.

PAINTABILITY

Bostik Seal N Flex 1 can be painted after 7 days minimum. 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.

CLEANING

Clean up uncured material and equipment immediately after use using Bostik Handy Wipes. Cured material can be removed by mechanical means only.

STORAGE AND SHELF LIFE

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

DISPOSAL

Dispose of according to local authority regulations. Do not dispose of down drains or into local waterways.

PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bostik.co.nz for copies.

HARMFUL IF INHALED. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. KEEP OUT OF REACH OF CHILDREN

The use of protective goggles, barrier creams and ointments, gloves, and protective clothing is recommended.

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FIRST AID

Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Give water to rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician

For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.

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BOSTIK HOTLINE

Smart help 0508 222 777



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