



SEAL `N' FLEX FC

FAST CURING POLYURETHANE JOINT SEALANT / ADHESIVE

KEY FEATURES

- One component, no mixing required
- Fast tack free time and cure rate
- Internal and external bonding
- High bond strength
- Excellent adhesion to most materials
- Excellent acoustic properties
- Paintable*
- ±25% joint movement
- Non-slumping
- Resistant to fungal attack
- Water potable
- Excellent resistance against hydrolysis, aging and a wide range of chemicals
- Made in Australia

DESCRIPTION

Bostik Seal `N' Flex FC is a high performance fast cure one component polyurethane sealant. When cured it will form a tough, flexible seal and bond capable of cyclic, expansion and compression movement. It is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weather ability enables it to retain its original properties after years of exposure.

RECOMMENDED USES

Bostik Seal `N' Flex FC can be used for:

- Sealing gaps and adhering most facade and cladding panels to various building materials
- Sealing construction and expansion joints
- Sealing floor and concrete joints
- Trafficable areas including plats, stairs, roads, runways, aprons and pavements
- Granite, sandstone and marble pointing
- GRC, fibreglass & most specialty panel systems
- Vertical - Precast, blockwork, plasterboard and most common building substrates
- Pick resistant areas including prisons, cells, schools and public amenities
- Chemical resistant areas including service stations, hangers, aprons and bunded areas
- Potable water tanks

PERFORMANCE PROPERTIES

Typical properties after 7 days cure at 25°C and 50% RH on correctly primed substrates

Colour	White, Grey & Black
Viscosity	Non-sag smooth thixotropic paste
Cure Method	Moisture Curing
Chemical resistance	Dilute acids, alkalis and some solvents. Intermittent contact with petroleum and diesel
Application Temperature	5°C to 35°C
Tack free time	45 minutes
Cure Rate	3.0mm/24 hours
Temperature Resistance	-40°C to +70°C
Full Cure	7 days
Shore A Hardness	45
Tensile Strength	2.5 to 3.0N/mm ²
Elongation at break	> 450%
Total Joint Movement	± 25%
Maximum joint width	Up to 50mm on horizontal substrates. Up to 20mm on vertical substrates
VOC	78 g/litre

- Perimeter sealing of door and window framing
- For new construction and remedial applications
- Adhesive for wide range of building and construction applications
- For sealing of concrete joints in airport runways

SURFACE PREPARATION

1. Clean all surfaces by removing foreign matter and contaminants such as laitance, oil, dust, grease, frost, water, surface dirt, old sealants, curing agents and any protective coating.
2. Porous substrate should be cleaned by grinding saw cutting or blast cleaning (sand or water).
3. Non porous and plastic surfaces should be cleaned by solvent or mechanical means.
4. Dust, loose particles should be vacuum cleaned.
5. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry

cloth.

PRIMING

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

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 substrate 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 do 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 plastic and metallic non-porous substrate with Bostik N40 Primer using the two-cloth method described in the Bostik N40 Primer Technical Data Sheet).

APPLICATION

Bostik Seal `N` Flex FC 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 cartridge and screw on the nozzle.
2. Cut nozzle to give the required angle and bead size.
3. Place the cartridge in a Bostik applicator gun and squeeze the trigger.

Sausages application :

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

Apply Bostik Seal `N` Flex FC 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.

Construction Adhesive Applications

Bostik Seal `N` Flex FC does not need to be applied to both surfaces to be bonded, but both surfaces must be prepared in accordance with preparatory work. Apply in beads or daubs to the prepared substrate. Materials being adhered can be bonded immediately or left open for up to 15 minutes after application prior to bonding. If no mechanical fixing is to be used in conjunction with

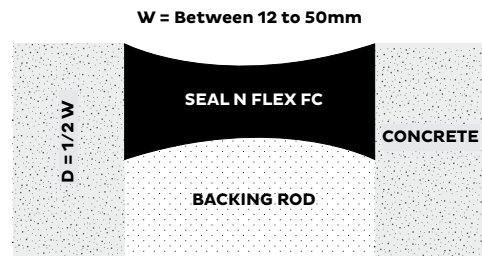
adhesive, clamping is necessary until full cure is achieved. Use only enough sealant to achieve adequate bond (dependant on surface texture). Excess sealant can be removed by dry cloth or solvent wipe before curing. If adhesive is to be exposed, smooth off with spatula or putty knife to flush finish.

Construction Sealant Applications

Bostik Seal `N` Flex FC is especially suitable for vertical joint sealing or in flooring applications such as saw cuts jointing. More joint movement can be accommodated in a thin bead of sealant than in a thick bead. The ratio of joint width of sealant to depth should be 2:1. The use of a bond breaker prevents undesirable three-sided adhesion. Open cell polyurethane foam or closed cell polyethylene foam rod is the recommended back up material to control correct sealant geometry. Install back up material or joint filler, as specified. Apply Bostik Seal `N` Flex FC continuously using positive pressure to properly fill and seal the joint. Tool the sealant with adequate pressure to spread the sealant against the back up material and onto the joint sides. Excess sealant should be wiped from all surfaces while still uncured. Remove any masking tapes prior to sealant curing.

Joint Sealing Hints

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



COVERAGE

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

Joint Size (D x W)	5mm x 6mm	20mm x 10mm
300 ml cartridge	10 Lineal metres	2.3 Lineal metres
600 ml sausage	20 Lineal metres	4.4 Lineal metres

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

*PAINTABILITY

Bostik Seal `N` Flex FC can be painted a minimum of 24 hours after application using water borne coatings and most epoxy flooring systems. Coating containing high solvent contents such as gloss enamels or high oil based undercoats may cause the surface of the sealant to react creating a tacky surface to develop. A field test is recommended to ensure compatibility. To

obtain best appearance and performance the paint must approximate the elongation capabilities of the sealant. High build coatings with some elastomeric ability such as quality acrylic emulsions have the capability to absorb low movement without significant distortion of the paint film.

LIMITATIONS

Not recommended for :

- Used in highly chlorinated water such as swimming pools, spas etc.
- Glazing application subject to UV light radiation or direct sunlight exposure.
- Should not be applied or finished with wet tooling techniques, using solvents, water or detergent / soap solutions.
- Should not be applied to unpredictable absorptive surfaces such as marble, limestone or granite unless a standard of appearance has been agreed on as a result of testing for stain and / or discolouration.
- Application onto or near any bitumen products.
- Interior and exterior structural sealing below the waterline in maritime applications.
- Surfaces with special protective or cosmetic coating such as mirrors, reflective glass or surfaces coated with Teflon, polyurethane, polypropylene.
- Will not adhere to polyethylene, polypropylene or PTFE.
- Application less than 5mm in width or less than 6mm in depth
- may yellow or discolour if exposed to UV light for prolonged periods of time
- As all substrates and conditions are different, it is strongly recommended that the applicator, or end user conducts their own tests and ensure the product meets their own end use requirements.

PACKAGING

300ml cartridge / 20 per carton
600ml sausage / 20 per carton

CLEAN UP

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.

The information and recommendations relating to the application and end-use of the product are given in good faith and based on tests which we believe to be reliable. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. However, no warranty in respect of merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship, whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. No guarantee of their accuracy can be made because of the great range of field conditions and variation encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with limited warranty only, and on condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik be liable to anyone except for replacement of the products or refund of the purchase price.

STORAGE AND SHELF LIFE

Store in cool (between 5°C and 30°C), dry, well-ventilated area out of direct sunlight. Store away from oxidizing agents and acids. Shelf life is 12 months in original unopened sausage.

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.

HEALTH AND SAFETY

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC 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. 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 & Leaks : Clear area of all unprotected personnel. Slippery when spilt, Wear protective equipment. Absorb with sand & soil. Collect and seal in properly labelled drums. Dispose of contents/container in accordance with local, regional, national and international regulations.

Swallowed : If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Eye : If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Skin : If skin contact occur, 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.

BOSTIK HOTLINE

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