



SEAL 'N' FLEX[®] FC

ONE COMPONENT, FAST CURE POLYURETHANE SEALANT

28 March 2017

YOUR SMART ADVANTAGES

- 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

USES

Bostik Seal 'N' Flex[®] FC is a high performance, fast cure one component polyurethane sealant. When cured, it will form a tough and 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. Bostik Seal 'N' Flex FC can be used for:

- Sealing gaps and adhering most façade 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 and most specialty panel systems
- Vertical-Precast, block work, 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 banded areas
- Potable water tanks
- Perimeter sealing of door and window framing
- For new construction and remedial applications
- Adhesive for wide range of building and construction applications

PRODUCT CHARACTERISTICS

Colours	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.
Coverage	Refer to coverage table
Application temperature	5 to 35°C
Product codes	
300ml cartridge/20 per carton	
White	30840076
Grey	30840073
Black	30840075
600ml sausage/20 per carton	
White	30803687
Grey	30840072
Black	30800512

TYPICAL PERFORMANCE DATA (approx.)

Tack free time	45 minutes
Cure rate	3.0 mm/24 hours
Temperature resistance	-40 to +70°C
Full cure	7 days
Shore A hardness	45
Tensile strength	2.5 to 3.0 N/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

BOSTIK SEAL 'N' FLEX® FC

DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting www.bostik.com.au or by scanning the relevant QR code on pack.

SURFACE PREPARATION

1. 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
2. Porous substrates 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 and 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 surfaces 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 so 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 plastics and metallic non-porous substrates 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 top of the cartridge and screw on the nozzle
2. Cut the nozzle to give the required angle and 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 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:

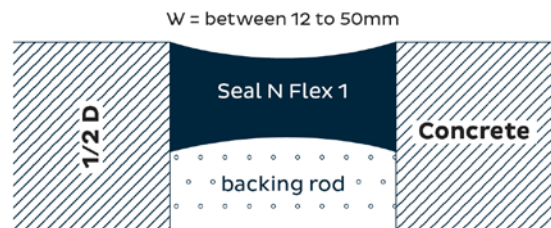
Bostik Seal N Flex FC does not need to be applied to both surfaces to be bonded, but both surfaces must be prepared in accordance with preparatory work. Apply in beads or daubs to the prepared substrate. Materials being adhered can be bonded immediately or left open for up to 15 minutes after application 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 (dependent 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 and 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 and 1:2 from 12- 50mm
- Tool sealant to achieve concave shape



COVERAGE

The estimated lineal metre yield per pack size is recommended in the following table and is dependent on substrate conditions.

JOINT SIZE (D x W)	5mm x 6mm	20mm x 10mm
300ml Cartridge	10 Lineal metres	2.3 Lineal metres
600ml Sausage	20 Lineal metres	4.4 Lineal metres

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

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CLEANING

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.

*PAINTABILITY

Bostik Seal 'N' Flex FC can be painted after a minimum of 24 hours using water borne coatings and most epoxy flooring systems. Coatings 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:

- Use in highly chlorinated areas such as swimming pools, spas, etc.
- Glazing applications 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 or 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 or polypropylene.
- Will not adhere to polyethylene, polypropylene or PTFE
- Applications 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

STORAGE AND SHELF LIFE

Store in cool (between 5°C to 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 container.

DISPOSAL

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 Australian Consumer Law (ACL). Sale of the product by Bostik is subject to the Bostik Australia Proprietary Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.com/au

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.

VOC INFORMATION

78g/litre

HEALTH AND SAFETY

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGY 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 or soil. Collect and seal in properly Label 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 occurs, 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.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.

BOSTIK HOTLINE

Smart help 1800 898 551

