

SEAL N FLEX FC

FAST CURE POLYURETHANE SEALANT

23 May 2017

YOUR SMART ADVANTAGES

- Fast tack free time and cure rate
- High bond strength
- A medium/high modulus product, which forms a resilient and permanently elastic seal
- Excellent adhesion to most materials including metals, concrete, brick, wood, plasterboard, GRC & CFC
- Paintable (refer paintability section)
- Non-slumping
- Resistant to fungal attack to AS1157.2
- Potable water approval to AS4020
- Excellent resistance against hydrolysis, ageing and a wide range of chemicals
- One component, no mixing required
- High movement accommodation ($\pm 25\%$) ASTM C719

USES

- For sealing floor joints
- Granite, sandstone and marble pointing
- GRC, Fibreglass & most specialty panel systems
- Trafficable - Plats, stairs, roads, runways, aprons and pavements
- Vertical-Precast, Block work, plasterboard and most common building substrates.
- Pick resistant - Prisons, cells, schools and public amenities.
- Chemical resistant - Service stations, hangers, aprons and banded areas.
- Potable water tanks
- Sealing gaps and adhering most façade and cladding panels to various building materials
- Sealing construction and expansion joints
- Perimeter sealing of door and window framing
- For new construction and remedial applications
- Adhesive for wide range of building and construction applications

PRODUCT CHARACTERISTICS

Colour	Black, Grey and White
Viscosity	Brushable
Tack Free Time	45 Minutes
Cure method	Moisture cure

Cure rate	3.5mm/24 hours
Application Temperature	5 to 35°C
Usage - 20 x 10mm bead	380g Cartridge = approx.. 1.5m 600ml Sausage = approx.. 3m

Product codes

380g cartridge/20 per carton	
Black	40840075
White	40840076
Grey	40840073
600ml Sausage/20 per carton	
Black	30840036
White	30803687
Grey	30840072
N40 primer	30804574
1L Tin/12 per carton	
N49 Primer	30804493
1L Tin/12 per carton	

TYPICAL PERFORMANCE DATA (APPROX)

Peel strength (7 days)	13Kg/25mm canvas to canvas
Shore "A" hardness	50
In service temperature range	-40 to +70°C*
Tensile strength	2.5 - 3.0N/mm ²
Elongation at break	>450%
Specific gravity	-20 to +70°C
Chemical resistance	Resistant to dilute acids, alkalis and some solvents. Intermittent contact with diesel and petroleum

* The sealant will deteriorate if subjected to high temperatures and/or humidity on a continuous basis.

DIRECTIONS FOR USE

. Read and understand the Safety Data Sheet before using this product.
It is recommended that this product is fully evaluated as

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suitable for the application methods to be employed and for suitability of performance both initially and for the expected life of your product under the condition it is expected to withstand.

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:

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

SURFACE PREPARATION

Clean all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants and any protective coating. Porous substrates should be cleaned by grinding saw cutting or blast cleaning (sand or water). Dust, loose particles, etc. should be blown out of joints with oil free compressed air or vacuum cleaned. Non porous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry cloth.

Priming Porous Substrates

- Absorbent or porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate.
- For maximum performance on porous surfaces and, in all periodically immersed and submerged applications, use Bostik N49 Primer.
- 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.

Priming Non Porous Substrates

- Bostik N40 Primer is recommended for non-porous plastic and metal substrates.
- Prime all plastics and metallic non-porous substrates with Bostik N40 Primer using the two-cloth method described below.

Two Cloth Method – N40 Primer Application

- Dampen a clean and dry cloth with Bostik N40 Primer and spread evenly over the nonporous substrate using a cleaning/rubbing action.
- With a second clean and dry cloth, immediately wipe all primer residues off with a buffing action.
- Allow the substrate to dry for a minimum of 5 minutes before installing Bostik Seal 'N' Flex FC.
- Do not leave the primer longer than 4 hours before applying sealant.
- Re-prime if 4 hours has elapsed without applying sealant/adhesive
- Clean and re-prime if the primed surface is contaminated before Bostik Seal 'N' Flex FC is applied.

APPLICATION

Bostik Seal N Flex FC 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 FC 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

Paintability

Bostik Seal 'N' Flex FC can be painted a minimum of 24 hrs after application using water borne coating 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 suitable for polyethylene, polypropylene or Teflon.
- Bostik Seal N Flex FC should not be used in highly chlorinated areas such as swimming pools, spas etc.
- Bostik Seal N Flex FC should not be used in glazing applications subject to UV light radiation or direct sunlight exposure.
- Bostik Seal N Flex FC should not be applied or finished with wet tooling techniques, using solvents, water or detergent / soap solutions.
- Bostik Seal N Flex FC sealant 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.
- Bostik Seal N Flex FC should not be applied onto or near any bitumen products.
- Bostik Seal N Flex FC should not be exposed to water and/or alcohol before it has completely cured
- Bostik Seal N Flex FC should not be used where the substrate is incompatible with plasticised sealants
- 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.
- Do not use in interior or exterior structural sealing below the waterline in maritime applications.
- Do not apply at temperatures below 5°C or above 35°C.
- Do not apply to surfaces with special protective or cosmetic coating such as mirrors, reflective glass or surfaces coated with Teflon, polyurethane or

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polypropylene.

- Bostik Seal N Flex FC must not be applied less than 5mm in width or less than 6mm in depth.
- Bostik Seal N Flex FC White 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.

CLEANING

Clean up uncured material and equipment immediately after use using Bostik Handy Wipes. Cured material can be removed by mechanical means only. Use Bostik Handy Wipe towels to remove adhesive from skin.

STORAGE AND SHELF LIFE

Store between 5°C and 30°C. Shelf life is one year 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.

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.

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 be excluded by legislation, for example under the Consumer Guarantees Act 1993. Sale of the product by Bostik is subject to the Bostik New Zealand Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.co.nz.

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BOSTIK HOTLINE

Smart help 0508 222 777



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