



Seal 'N' Flex FC

FAST CURING POLYURETHANE TRAFFICABLE SEALANT

DESCRIPTION

Bostik Seal 'N' Flex FC is a fast cure high performance one component polyurethane elastomeric joint sealant. When fully cured, Seal 'N' Flex FC will provide a tough, flexible seal capable of cyclic expansion and compression to 50% of original joint width without primer on most substrates. Seal 'N' Flex FC is unaffected by ultra-violet radiation, atmospheric contamination or pollution. Its excellent weatherability enables it to retain its original properties after years of exposure (C.S.I.R.O. RILEM exposure study).

FEATURES AND BENEFITS

- Australian made
ISO 9002
- Aromatic Technology
No priming required on most substrates
- U.V. Resistant
No discoloration
- $\pm 25\%$ Movement
Low modulus elastomeric sealant
- Abrasion and Pick Resistant
Security applications
- Shore A 50
Trafficable applications
- AS 4020
Potable water approval
- Excellent chemical resistance
Petroleum & wash down environment
- Resistant to fungal attach AS 1157 2
Chicken, poultry & food environment
- Acoustic Properties Paintable

RECOMMENDED USES

- Trafficable - Plats, stairs, roads, runways, aprons and pavements
- Vertical-Precast, blockwork, aluminum, plasterboard timber and most common building substrates
- Pick resistant-Prisons, cells, schools, and public amenities
- Chemical resistant - Service stations, hangers, aprons and banded areas
- Fungal resistance - Wet areas, wash down bays, food processing



APPROVAL AND STANDARDS

ASTM C 920-87 & 98 (USA) as Type S, Grade NS, Class 25, use T, G, A, M & O as an external joint sealant. Federal Specification TT-S-00233C, Type II, Class AAS 4020-1992 Potable Water

APPLICATION INSTRUCTIONS

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: In most common applications Seal 'N' Flex FC does not require priming. For maximum performance on porous surfaces use Bostik N49 Primer and/or Bondflex Primer, N40 Primer and 5077 cleaner/primer is recommended for non-porous surfaces. On applications involving glass, specially treated surfaces or critical structural fabrications, consult Bostik for primer recommendations.

APPLICATION: Seal 'N' Flex FC when used as an adhesive or sealant should be dispensed from either the cartridge or sausage sachet by means of a hand or air operated caulking gun designed for such application (available from Bostik)

Pierce the membrane from the top of the cartridge and screw on the supplied nozzle. Having previously cut this to give the required angle and bead size.

Place the cartridge in a suitable Bostik extrusion gun and press the trigger. For sausages, a barrel gun is required, this is available from Bostik. Clip the end of the sausage and place complete sausage with pierced end located at the top of the nozzle. Screw top of nozzle and housing on barrel of gun. Using the trigger on the gun extrude product from the sausage to stop product flow, using the thumb depress the catch plate mechanism located at the very rear of the gun, directly above the trigger. Apply **Seal 'N' Flex FC** in a continuous operation using positive pressure adequate to properly fill and seal a cavity.

Construction Adhesive Applications

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/Adhesive Applications

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 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

PACKAGING

Seal 'N' Flex FC is supplied in 380gm (300ml) cartridges and 720gm (600ml) sausages, 20 per carton.

COVERAGE

Pack Size	Lineal metres 6mm bead	Lineal metres 20mm bead
380 gm ct (300ml)	10	2.3
720 gm sgs. (600ml)	19	44

PERFORMANCE PROPERTIES

Typical properties after 7 days cure 25°C and 50% RM

Technology	Aromatic
Appearance	Non-sag smooth thixotropic paste
Cure System	Moisture curing
Tack free time (minutes)	45 minutes
Rate cure in mm/24 hrs	3.5
Hardness shore A	50 + 5%
Tensile Strength	> 2.1 N/mm ²
Application temperature	5°C to 35°C
Temperature Resistance	-40°C to +70°C
Color	Grey, black and white
Full cure	Depends on thickness (e.g. 10mm will cure 3 days approx.)

*Average laboratory values provided as a general guide

**Actual field performance will depend on installation and site conditions

PRECAUTION

- Seal 'N' Flex FC should not be used in highly chlorinated areas such as swimming pools, spas etc. without prior consultation with Bostik Technical Services
- Seal 'N' Flex FC should not be used in glazing applications subject to UV light radiation or direct sunlight exposure without prior consultation with Bostik
- Seal 'N' Flex FC should not be applied or finished with wet tooling techniques, using solvents, water or detergent/soap solutions
- 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 discoloration.
- Do not use in interior or exterior structural sealing below the waterline in marine applications
- Do not apply at temperature below 5°C
- Do not apply to 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.

PAINTABILITY

Bostik Seal 'N' Flex FC can be painted as early as 24 hours 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. Please contact Bostik Technical Department

if unsure of any paint system.

P.A.T.S (Pretested Adhesion to Substrate) Programme

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information. the capability to absorb low movement HEALTH AND SAFETYant distortion of the paint film.

HEALTH AND SAFETY

On contact, uncured sealant causes irritation. Gloves and protective goggles must be worn during application and use

- Avoid contact with skin, eyes and avoid breathing in vapor
- Wear protective gloves when mixing or using. If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do not induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- For more detailed information refer to Material Safety Data Sheet.

CLEAN UP

Clean up uncured material and equipment immediately after using Bostik 9007 solvent or other equivalent solvent. Do not use solvents on skin. For removal on skin, uncured sealant can be removed with Bostik Hand-Clean towels.the capability to absorb low movement without significant distortion of the paint film. Please contact Bostik Technical Department if unsure of any paint system.

STORAGE

Store between 5°C and 30°C.

Shelf life is twelve months in original unopened cartridge or sausage.

FIRE

Seal 'N' Flex FC is non-flammable

DISCLAIMER:

The information in this Technical Data Sheet is intended for the assistance of users and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge and control. Users are asked to make sure that the TDS in their possession is the latest issue. Likewise, we recommend users carry out their own tests to determine the suitability of the product for their particular purposes.

Any claim for a defective product must be filed within 30 days of discovery of a problem and must be submitted with written proof of purchase. Claims are not transferrable or assignable and extend only to the original purchaser/user. Bostik reserves the right to inspect alleged failure and no responsibility will be accepted unless Bostik is given the opportunity to do so. Bostik limits its liability to the replacement of the product/s proven faulty.

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