



# technical data sheet

## **FIREBAN ONE** **One Part Fire Rated Polyurethane Sealant**

**PRODUCT**

Bostik Fireban One is a one component fire rated polyurethane sealant.

**DESCRIPTION**

Fireban one is a fire rated, single component, low modulus polyurethane sealant curing via air humidity to form a elastomeric weatherproof fire rated seal.

**RECOMMENDED USES**

- Sealing joints in expansion and construction joints in precast.
- Sealing joints in insitu concrete, block and brick work.
- Penetration and core hole sealing in conjunction with fire collars or pillows or in areas requiring intumescent sealing
- Sealing joints that require acoustic rating performance

**FEATURES & BENEFITS**

- High durability
- Excellent weathering resistance
- Can be over painted
- Non staining
- 50% total joint movement minimum
- Australian made
- Excellent acoustic ratings
- Fire rated up to 4 hours

**PERFORMANCE PROPERTIES**

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

Appearance	Non-sag thixotropic paste
Colour	Limestone
Chemical type	Polyurethane (Moisture Cure)
Shore A hardness	30 approx.
Chemical Resistance	Resistant to dilute acids, alkalis and some solvents.
Tack Free Time	6-12 hours
Tensile Strength	>1.3 N/m.m2
Temperature Resistance	-40°C to + 70°C
Application temperature	+ 5°C to + 35°C
Elongation at Break	>900%
Specific Gravity	1.45 approx

**APPROVALS/STANDARDS**

- AS 1526-1973
- ASTM C920-1986
- BS4254-1983
- Fire Test Certification to AS1530-4 (1990), AS4072-1 (1992) and BS476-20 (1987)
- Acoustic certification to BCA Standards.
- BOMBA Approved (Malaysia)
- SISIR Approved (Singapore)

**PACKAGING**

Bostik Fireban One is available in 600ml sausage.

**COVERAGE**

The coverage below is the approximate lineal metre coverage per pack size.(600ml sausage)

Size	6mm x 6mm	10mm x 10mm	20mm x 10mm
600ml	16.7	6	3

Calculation formula  $\frac{W \times D \times L}{1000} = \text{Litres}$

W = Width(mm) D = Depth(mm) L= Length(metres)

**APPLICATION INSTRUCTIONS****JOINT DESIGN**

Refer to Fire Test Certification in relation to correct depth/width ratio configuration. Back up materials impregnated with oil or bitumen materials are not to be used. Adhesion between the back up material and sealant must not occur because the excessive stresses exerted on the product may cause failure of the sealant.

**PREPARATION:**

Clean and dry all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, dirt, old sealants and any protective coating. Dust and loose particles should be blown out of joints or vacuum cleaned. Non porous surfaces may require preparation / priming, refer primer selection guide. Cleaning solvents should not be allowed to dry or evaporate without being wiped with a clean, dry cloth.

**PRIMING**

For maximum performance on porous surfaces use Bostik N49 Primer.

5077 cleaner / N40 primer is recommended for non-porous surfaces. Prior to any application of Fireban One refer to primer selection guide.

**APPLICATION**

For application of sausages, a barrel gun is required, clip the end of the sausages 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 Fireban One in a continuous bead using enough pressure to properly fill the joint.

## JOINT SEALING HINTS

Prime prior to the installation of the backing rod  
Always use backing rod for correct sealant geometry  
Ensure maximum adhesion to bond face and depth to width ratio of 1:1 to 12mm and 2:1 from 12 to 50mm  
Tool sealant to achieve concave shape

W = between 12 to 50mm



## MIXING

No mixing is required for Bostik Fireban One.

## PRECAUTION

Bostik Fireban One sealant should not be applied with wet tooling techniques using solvents, water or detergent/soup solutions is not recommended.

Bostik Fireban One sealant should not be applied to surfaces with special protective or cosmetic coatings without prior consultation with the manufacturer. Such surfaces include, but are not limited to, mirrors, reflective glass, or surfaces coated with Teflon® polyethylene or polypropylene.

Bostik Fireban One 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 Fireban One sealant cures via air humidity. Bostik Fireban One can be affected by water before or during cure. The sealant should be stored, applied or cured in areas where unusually high humidity or free water are present during the application or initial cure.

Bostik Fireban One sealant should be allowed to cure for 14 days prior to subjecting to an intermittent or continuous head of water

## 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 representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and use methods. The products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the products for their particular purposes. Under no circumstances will Bostik Findley Australia be liable to anyone except for replacement of the products or refund of the purchase price.

## 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 vapour
- 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 use using Bostik 9907 solvent. Do not use solvents on skin.

## STORAGE

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

ITEM NO	STOCK SIZE	COLOUR
<b>BOSTIK FIRE BAN ONE</b>		
224200	600ml (870gm) sausage	Limestone
<b>BOSTIK FIRECAULK</b>		
239747	BOSTIK FIRECAULK 10L	Limestone
239755	BOSTIK FIRECAULK 960gm	Limestone
245410	BOSTIK FIRECAULK 300ml	White
248770	BOSTIK FIRECAULK 960gm	White
<b>BOSTIK N40 PRIMER</b>		
231436	BOSTIK N40 PRIMER 1L	Clear
<b>BOSTIK N49 PRIMER</b>		
151203	BOSTIK N49 PRIMER 1L	Clear
159565	BOSTIK N49 PRIMER 4L	Clear
<b>BOSTIK BOND FLEX PRIMER</b>		
229504	BOSTIK BOND FLEX PRIMER 500ml	Clear
<b>BOSTIK 5077 CLEANER</b>		
227935	BOSTIK 5077 CLEANER 1L	Clear
<b>HANDI-CLEAN TOWELS</b>		
257753	72 towels per bucket 6 buckets per carton	

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