



# FIREBAN<sup>®</sup> ONE

## ONE PART FIRE RATED INTUMESCENT POLYURETHANE JOINT SEALANT

25<sup>th</sup> October 2017

### YOUR SMART ADVANTAGES

- Fire Rated up to 4 hours
- Acoustic rated
- One component, no mixing required
- Low modulus 50% (+ 25%)
- Excellent durability
- Retains its original properties even after years of weather and UV exposure
- Resistant to weathering conditions
- Paintable\*
- Non staining
- Does not support fungal growth
- Australian made

### USES

Bostik Fireban<sup>®</sup> One is a fire rated intumescent, low modulus, one component, Class-A polyurethane sealant. When cured it will form a tough, flexible fire rated seal capable of cyclic expansion and compression movement of 50% ( $\pm$  25%) of the original installed joint width. Bostik Fireban One is resistant to normal weathering conditions such as rain, sunlight, snow, sleet, ozone, atmospheric contamination and pollution. Bostik Fireban One can be used on:

- Insitu concrete floors and walls
- Precast and tilt up panels
- Brickwork and blockwork
- Rendered masonry
- Plasterboard (Fire rated and/or acoustic rated)
- Fibre cement sheet (Fire rated and/or acoustic rated)

### PRODUCT CHARACTERISTICS

|                         |  |
|-------------------------|--|
| Colours                 | Limestone<br>Off White<br>Grey (Export)<br>White (Export)                                |
| 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

600ml sausage/20 per carton

|                    |          |
|--------------------|----------|
| Limestone          | 30840044 |
| Off White          | 30609405 |
| Limestone (Export) | 30800514 |
| Grey (Export)      | 30840730 |
| White (Export)     | 30840480 |

### TYPICAL PERFORMANCE DATA (approx.)

#### Specification

Fire test certification AS 1530.4-2014, AS4072.1 and BS476-20 REF: CSIRO FLO 1785 and BOS S.02.

Doc. 97/196 (M)

CSIRO RILEM Long-term Sealant Durability Study DBCE

Class F-25LM

ISO 11600

DIN 18540 (German) and SNJF (French)

Approval as a low modulus external joint sealant

ASTM C.920-87 & 98 (USA) as Type S, Grade NS, Class 25, use NT, G, A, M, & O

External joint sealant

AS4020

Water potable

AS1157-1972

Resistance to fungal growth

Approved

BOMBA Malaysia

Approved

TUV SUD PSB Singapore

Service temperature

-40 to 70°C

Tack free time

6-12 hours

Cure rate

2mm/24 hours on porous substrates

# BOSTIK FIREBAN® ONE

|                      |                              |
|----------------------|------------------------------|
| Full cure            | 7 days on porous substrates. |
| Specific gravity     | 1.45 g/ml                    |
| Shore A hardness     | 30                           |
| Tensile strength     | > 1.3 N/mm <sup>2</sup>      |
| Elongation at break  | > 900%                       |
| Total joint movement | ± 25%                        |
| Maximum joint width  | Up to 50mm                   |

## DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting [www.bostik.com.au](http://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. Dust and loose particles should be vacuum cleaned.

## Priming

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

DO NOT USE METHYLATED SPIRITS OR TURPS.

## 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 Ultraseal is recommended for non-porous or burnished/overworked concrete substrate as per Bostik Ultraseal Technical Data Sheet.
3. Bostik N40 Primer is recommended for non-porous plastic and metal substrates.
4. Prime all plastics and metallic non-porous substrates with Bostik N40 Primer using the two-cloth method described below. E.g. UPVC outlets and pipe work: brass, copper fittings, stainless steel trays and flashings.

## APPLICATION

Bostik Fireban One should be dispensed from the sausage by means of a sausage barrel gun.

## Sausage application:

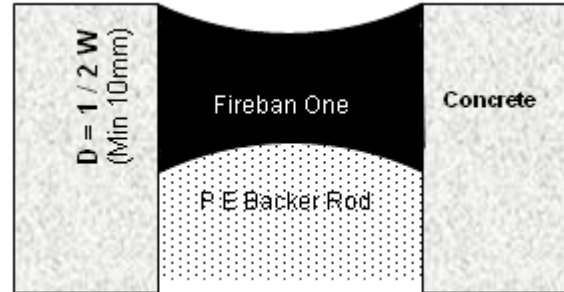
1. Clip the end of the sausage and place in a barrel gun
2. Screw the end cap and nozzle onto the barrel gun
3. Use the trigger to extrude the sealant. To stop; depress the catch plate.

Apply Bostik Fireban One 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.

## Joint sealing hints:

- Prime prior to the installation of the backing rod

- Always use backing rod for correct sealant geometry & contact with the substrate
- Ensure maximum adhesion to bond face and depth to width ratio of 1:1 for 10mm joints and 1:2 for joints over 10mm up to 50mm and 3:4 for some joints in specialist applications (refer to Application manual BOS 5.02 for specific joint Configurations).
- Tool sealant to achieve concave shape



## COVERAGE

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

| JOINT SIZE<br>(D x W) | 10mm x<br>10mm | 20mm x<br>10mm | 40mm x<br>20mm | 50mm x<br>25mm |
|-----------------------|----------------|----------------|----------------|----------------|
| 600ml                 | 6              | 3              | 0.75           | 0.48           |
| Sausage               |                |                |                |                |

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

## 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. Aromatic solvent clean up is not recommended. Clean off uncured material and equipment immediately after use using Bostik Handy Wipe towels to remove adhesive from skin.

## \*PAINTABILITY

Bostik Fireban One can be painted after a minimum of 7 days. Coatings containing solvents such as enamels, oil based or other coatings may cause the surface of the sealant to react creating a tacky surface. Surface coatings may discolour in direct contact with cured Bostik Fireban One. Surface coatings may crack and craze as a result of cyclical movement of supporting sealant joint. A field test is recommended to ensure compatibility of any coating with Bostik Fireban One.

## LIMITATIONS

Not recommended for:

- Use in chlorinated water such as swimming pools, spas etc.
- Use on any material containing bitumen
- Constant immersion in salt water
- Use in glazing applications
- Application to cement based substrates within 28 days of initial pour or set
- Use in trafficable joints greater than 10mm in width
- Application at temperatures below 5°C or above 35°C
- Exposure to water and/or alcohol before it has completely cured
- Wet tooling techniques, such as soapy water
- Application in less than 6mm in width and depth

## 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.

# BOSTIK FIREBAN® ONE

## DISPOSAL

Empty 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

64g/litre

## HEALTH AND SAFETY

### POISON

**KEEP OUT OF REACH OF CHILDREN.**

**READY SAFETY DIRECTIONS BEFORE OPENING OR USING.**

**CAUSES SKIN IRRITATION.**

**MAY CAUSE AN ALLERGIC SKIN REACTION.**

**MAY CAUSE ALLERGY OR ASTHMA 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. Contaminated work clothing should not be allowed out of the workplace. 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 labelled drums. Dispose of contents/container in accordance with local, regional, national and international regulations.

### FIRST AID

**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



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](http://www.bostik.com/au)