



FIREBAN[®] ONE

ONE PART FIRE RATED INTUMESCENT POLYURETHANE JOINT SEALANT

21st May 2021

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[®] 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% (± 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:

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

PRODUCT CHARACTERISTICS

Colours	Limestone Grey (Export) 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.
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Coverage	Refer to coverage table
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Application temperature	5 to 35°C
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Product codes	
600ml sausage/20 per carton	
Limestone	30616836

TYPICAL PERFORMANCE DATA (approx.)

Specification	
Fire test certification	AS 1530.4-2014, AS 4072.1-2005
CSIRO RILEM Long-term Sealant Durability Study DBCE	Doc. 97/196 (M)
External joint sealant	ASTM C.920 Type S, Grade NS, Class 25, use NT, G, A, M, & O
Resistance to fungal growth	AS1157-1972
BOMBA Malaysia	Approved
TUV SUD PSB Singapore	Approved
Service temperature	-40 to 70°C
Tack free time	6-12 hours
Cure rate	2mm/24 hours on porous substrates

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Full cure	7 days on porous substrates.
Specific gravity	1.45 g/ml
Shore A hardness	30
Tensile strength	> 1.3 N/mm ²
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 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 (D x W)	10mm x 10mm	10mm x 20mm	20mm x 40mm	25mm x 50mm
600ml Sausage	6	3	0.75	0.5

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

Litres / 0.6 = No. of 600ml sausages

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.

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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.

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.
READ 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 267 845



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