

PRODUCT DESCRIPTION

Danterr's Bostik Fireban® One is a one-component, fire-rated intumescent polyurethane joint sealant engineered for superior fire resistance, acoustic performance, and durability. Proudly Australian made, it provides up to 4 hours fire protection (AS 1530.4) while accommodating $\pm 25\%$ joint movement. Its weather, UV, and pollutant resistance ensure long-term performance in both residential and commercial projects.

Fire resistance and acoustic ratings are achieved when Fireban One is installed as part of tested and approved building systems.



FEATURES & BENEFITS

- Fire rated up to 4 hours (AS 1530.4)
- Acoustic rated STC 60 in plasterboard
- $\pm 25\%$ joint movement capability
- Strong adhesion to concrete, masonry, and cladding
- Resistant to weather, UV, and pollutants
- Paintable, non-staining, and fungal resistant
- Supplied in ready-to-use 600ml sausages

APPLICATIONS

- In situ Concrete Floors and Walls – Reliable seals for structural concrete joints
- Precast and Tilt-Up Panels – Effective joint sealing for panel systems
- Brickwork and Blockwork – Long-lasting adhesion with masonry substrates
- Rendered Masonry – Flexible sealing on rendered walls
- Fire-rated and/or acoustic-rated plasterboard systems – ensures compliance when installed as part of tested assemblies
- Fire-rated and/or acoustic-rated fibre cement sheet systems – suitable for compatible wall and floor joints

STANDARD COMPLIANCE

- AS 1530.4-2014 – Fire resistance
- AS 4072.1-2005 – Fire test for building elements
- ASTM C920 – Type S, Grade NS, Class 25
- AS1157-1972 – External joint sealant durability

PACKAGING & AVAILABILITY

| Product Code | Description |
|--------------|--|
| 119511 | Sealant Bostik Fireban One Limestone 600ml |

TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES

| Property | Result |
|-----------------------------------|---|
| Form / Viscosity | Non-sag, smooth thixotropic paste |
| Colour Options | Limestone |
| Cure Method | Moisture curing |
| Specific Gravity | 1.45 g/ml |
| Shore A Hardness | 30 |
| Tensile Strength | >1.3 N/mm ² |
| Elongation at Break | >900% |
| Total Joint Movement | $\pm 25\%$ (low modulus) |
| Maximum Joint Width | Up to 50 mm |
| Tack-Free Time | 6–12 hours |
| Cure Rate | 2 mm/24h (porous substrates), full cure 7 days |
| Service Temperature Range | -40 °C to +70 °C |
| Application Temperature | +5 °C to +35 °C |
| Heat Ageing (ASTM C792) | Pass – no cracking or chalking |
| Weathering Resistance (ASTM C793) | 5000 hours – Pass |
| Chemical Resistance | Dilute acids, alkalis, some solvents; intermittent petroleum & diesel contact |
| Resistance to Fungal Growth | Approved (BOMBA Malaysia) |
| Durability | Approved (CSIRO RILEM Long-term Sealant Study DBCE, ASTM C920 Type S, Grade NS, Class 25) |
| Fire Resistance | Up to 4 hours – AS 1530.4-2014, AS 4072.1-2005 |
| Acoustic Rating | Meets AS1157-1972 requirements |
| VOC Content | 64 g/L |

APPLICATION INSTRUCTIONS

Joint Preparation

- Substrates must be clean, dry, and free from dust, oils, curing agents, release agents, or contaminants.
- Concrete must be fully cured (minimum 28 days).
- For previously sealed joints: remove all old sealant mechanically and clean thoroughly.
- Highly porous substrates should be treated with a suitable primer to enhance adhesion, while non-porous surfaces may require a surface activator or specialized primer depending on the material type.

Bond Breakers and Backing Rods

- Install a closed-cell polyethylene backing rod or polyethylene bond breaker tape to prevent three-sided adhesion.
- Position the bond breaker so that the finished sealant surface sits 5 mm below the joint surface.

Sealant Application

- Apply only when the ambient temperature is +5 °C to +35 °C.
- Insert the sausage into a barrel gun, fit the nozzle, and extrude with steady pressure to fill the joint.
- Always install a backing rod before applying Fireban One for correct sealant geometry.

Tooling

- Tool the sealant immediately after application to achieve a smooth, concave finish.
- Do not use soapy water or tooling agents, as these can impair adhesion.

Cleaning

- Uncured sealant: remove with solvent.
- Cured sealant: remove mechanically.

Coverage:

- 600 ml sausage ≈ 6 m of 10 × 10 mm joint
- 600 ml sausage ≈ 3 m of 10 × 20 mm joint
- 600 ml sausage ≈ 0.75 m of 20 × 40 mm joint
- 600 ml sausage ≈ 0.5 m of 25 × 50 mm joint

Limitations

- Do not apply sealant if ambient or substrate temperature is below +5 °C or above +35 °C.
- Avoid application where the joint may be exposed to water, solvents, or alcohol before full cure.
- Not suitable for constant immersion in chlorinated or salt water (e.g., swimming pools, spas, or marine environments).
- Do not use on bituminous materials, in glazing applications, or on green/uncured concrete (within 28 days of pour).
- Not recommended for trafficable joints wider than 10 mm or for joints less than 6 mm in width and depth.

Storage:

- Shelf life: 12 months (unopened, in original packaging).
- Store in a cool, dry, well-ventilated area at +5 °C to +30 °C.
- Protect from direct sunlight and moisture.

SAFETY INFORMATION

Classification

- Hazardous, Non-Dangerous Goods (Safe Work Australia GHS 7)
- Not classified as Dangerous Goods for road, rail, sea, or air transport

GHS Hazard Class

- Acute Toxicity (Inhalation Vapours) – Category 4 (H332)
- Carcinogenicity – Category 1B (H350)
- Reproductive Toxicity – Category 1A (H360)
- **Signal Word:** DANGER
- **Hazard Statements:**
 - H332 – Harmful if inhaled
 - H350 – May cause cancer
 - H360 – May damage fertility or the unborn child

Precautionary Statements

- Prevention: Keep out of reach of children. Avoid breathing vapours, mist, or spray. Wear gloves, protective clothing, and eye/face protection. Wash your hands after handling.
- Response: If on skin, wash with soap and water. If irritation persists, seek medical advice. Remove contaminated clothing and wash before reuse.
- Disposal: Dispose of product and containers in accordance with local regulations.

First Aid Measures

- **Inhalation:** Move the victim to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation continues.
- **Eye Contact:** Rinse with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth, do not induce vomiting. Give water to drink, seek medical advice.

Fire Fighting Measures

- Suitable media: Water fog, alcohol-resistant foam, standard foam, dry chemical, or CO₂
- Hazards: May emit carbon oxides, nitrogen oxides, and hydrogen chloride on combustion
- Protection: Firefighters should wear SCBA and protective clothing

Accidental Release Measures

- Small spills: Wipe with an absorbent cloth or paper
- Large spills: Contain with sand/soil, collect in sealed containers. Slippery when spilt.

Toxicological Information

- Inhalation: May irritate the respiratory tract
- Skin: May cause allergic reaction/dermatitis
- Eyes: May cause irritation
- Ingestion: May cause nausea or GI irritation
- Not mutagenic, carcinogenic, or reproductive toxicant

Ecological Information

- Avoid release to waterways
- Not hazardous to aquatic life (acute or chronic)

Bostik Fireban® One



Disposal Considerations

- Dispose via licensed contractors
- Do not pour into drains, waterways, or landfill
- Recycle packaging where possible

Transport Information

- Not classified as Dangerous Goods (road, rail, sea, or air)

Regulatory Information

- All ingredients listed on/exempt from AIC (Australia) and NZIoC (New Zealand)
- HSNO Group Standard: HSR002544 – Construction Products (Subsidiary Hazard) Group Standard 2020