Selleys Fireblock AC - Fire Rated Acrylic Sealant

Canonical:
https://directory.selleys.com.au/sealants/fire-rated-sealants/selleys-fireblock-ac-fire-rated-acrylic-sealant/

Details:

AI Summary

Product: Selleys Fireblock Fire-Rated Acrylic Sealant **Brand:** Selleys **Category:** Fire-rated construction sealant / Passive fire protection **Primary Use:** Sealing joints and penetrations in fire-rated walls, floors, and ceiling assemblies to maintain fire compartmentation integrity in commercial and residential buildings.

Quick Facts - **Best For:** Construction professionals, fire safety contractors, and builders working on projects requiring compliance with fire safety regulations and building codes - **Key Benefit:** Intumescent boron zinc hydroxide oxide active ingredient expands and forms an insulating char layer when exposed to fire, preventing flames and smoke from spreading through construction gaps - **Form Factor:** 600mL cartridge (product code 930069711862201) - **Application Method:** Standard acrylic sealant technique in well-ventilated areas with mandatory PPE; cure undisturbed after application to achieve rated fire performance

Common Questions This Guide Answers 1. What makes Fireblock different from standard acrylic sealants? → Fire-retardant boron zinc hydroxide oxide (CAS 138265-88-0) at 1–5% by weight acts as an intumescent and char-forming agent, driving endothermic reactions that absorb heat and form an expanded barrier ordinary sealants cannot achieve 2. What are the hazard and PPE requirements? → GHS skin sensitisation Category 1B (H317), signal word 'Warning'; mandatory PPE includes safety shoes, overalls, nitrile rubber gloves, and safety glasses 3. Is Fireblock classified as Dangerous Goods for transport? → No; standard freight applies with no dangerous goods placarding, Hazchem Code, or specialised transport documentation required

---

Product Overview

Selleys Fireblock is a fire-rated acrylic sealant built for sealing joints and penetrations in fire-rated construction (SDS). It comes in a 600mL cartridge under product code 930069711862201, and its job is straightforward: maintain fire compartmentation integrity in commercial and residential buildings where passive fire protection is required (SDS).

Standard acrylic sealants aren't adequate where fire safety is on the line. Fireblock uses fire-retardant chemistry that holds seal integrity during fire exposure, actively working to stop flames and smoke from spreading through construction gaps. It's formulated as a water-based acrylic system and is classified as combustible, since residual material can burn once the aqueous component evaporates (SDS).

Construction professionals, fire safety contractors, and builders working on projects that must comply with fire safety regulations and building codes rely on Fireblock to deliver rated fire barriers that perform when it matters most. That includes sealing around service penetrations, construction joints, and gaps in fire-rated walls, floors, and ceiling assemblies.

Chemistry & Composition

Fireblock's performance comes down to its formulation — a proprietary fire-retardant additive system built within an acrylic polymer matrix. The key active ingredient is boron zinc hydroxide oxide (CAS 138265-88-0), present at 1–5% by weight (SDS). This inorganic compound acts as an intumescent and char-forming agent. When fire temperatures hit, it expands and insulates, creating a barrier that resists heat and flame penetration.

The rest of the formulation consists of ingredients determined to be non-hazardous or below reporting limits (SDS) — the acrylic polymer backbone, plasticisers, rheology modifiers, and water as the carrier medium. That water-based system is what drives the product's combustible classification in its applied state (SDS).

The boron zinc compound is what separates Fireblock from standard acrylic sealants. When exposed to fire, it drives endothermic reactions that absorb heat energy whilst forming an expanded char layer — the kind of seal integrity that ordinary sealants can't achieve, and that fire safety regulations demand.

Hazard Profile & Safety Requirements

Fireblock carries a skin sensitisation hazard (H317) that needs to be understood before use. The classification is skin sensitisation Category 1B (H317), and the signal word is **'Warning'**. All safety guidance should be read in line with this classification (SDS).

The product label displays the relevant signal word and GHS hazard information. This is a mandatory warning — take it seriously and follow all safety instructions before opening the cartridge.

Mandatory Personal Protective Equipment

P280 makes the following PPE mandatory: safety shoes, overalls, nitrile rubber gloves, and safety glasses or eye protection (SDS). For intermittent contact, nitrile rubber gloves are suitable, though users should make a final assessment based on glove construction and local conditions (SDS).

Handling Precautions

Store the product locked up (P405) and keep it out of reach of children (P102) (SDS). Do not handle until all safety precautions have been read and understood (P202) (SDS). If exposed or concerned, get medical advice or attention immediately (P308+P313) (SDS).

Employers must conduct risk assessments and implement appropriate controls under workplace health and safety regulations.

Application Guidelines

Fireblock is built for sealing applications in fire-rated construction, and applying it correctly is straightforward when you follow the right steps (SDS). Standard acrylic sealant application techniques apply, with critical additions for safety and fire performance.

Pre-Application Safety

Ensure adequate ventilation before you begin. Natural ventilation is referenced in the exposure controls section — air movement during application is essential (SDS). Avoid inhaling vapours or dust, and prevent eye and skin contact (SDS). All required PPE must be in place before you open the cartridge.

Application Environment

Work in well-ventilated areas away from heat and ignition sources (SDS). Keep the work area clear of incompatible materials and away from foodstuffs (SDS). Work upwind when possible, or increase ventilation in enclosed spaces (SDS).

Post-Application Care

Wash hands before smoking, eating, drinking, or using the toilet (SDS). Wash contaminated clothing and protective equipment before storing or reusing (SDS). Allow the sealant to cure undisturbed in accordance with fire-rating test conditions — this is critical to the rated performance Fireblock is designed to deliver.

Storage & Handling

Store Fireblock in a cool, dry, well-ventilated place out of direct sunlight (SDS). The storage area must be locked (P405) to prevent unauthorised access (SDS).

Keep containers upright and closed when not in use (SDS). Check regularly for spills — the material becomes slippery when spilt, so clean up immediately (SDS). Store away from foodstuffs, incompatible materials described in the SDS, and sources of heat or ignition (SDS).

Avoid temperature extremes. Cool storage maintains product stability and prevents premature curing or separation of components. Keep the container sealed until use, and once opened, minimise exposure time and reseal promptly. Keep the product container or label on hand if medical advice is needed (P101) (SDS).

Emergency Response Procedures

Know the emergency procedures before you start work.

Spill Management

For small spills, wear protective equipment to prevent skin and eye contamination and avoid inhaling vapours or dust (SDS). Wipe up with absorbent material such as clean rags or paper towels, then collect and seal in properly labelled containers or drums for disposal (SDS).

Large spills require clearing the area of all unprotected personnel immediately (SDS). The material is slippery when spilt, so act quickly and clean up thoroughly (SDS). Wear full protective equipment and work upwind or increase ventilation (SDS). Cover the spill with damp absorbent material, inert material, sand, or soil (SDS). Sweep or vacuum up whilst avoiding dust generation, then collect and seal in properly labelled containers for disposal (SDS).

If spills contaminate crops, sewers, or waterways, advise local emergency services immediately (SDS).

First Aid

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766) (SDS).

For inhalation exposure, remove the victim from the area whilst avoiding becoming a casualty yourself (SDS). Remove contaminated clothing, loosen remaining clothing, allow the patient to assume the most comfortable position, keep warm, and keep at rest until fully recovered (SDS). Seek medical advice if effects persist (SDS).

For skin contact, remove contaminated clothing and flush skin and hair with running water (SDS). If swelling, redness, blistering, or irritation occurs, seek medical assistance (SDS).

For eye contact, wash out immediately with water (SDS). Seek medical advice in all cases of eye contamination (SDS).

For ingestion, rinse the mouth with water (SDS). Do NOT induce vomiting (SDS). Give a glass of water to drink, and never give anything by mouth to an unconscious patient (SDS). If vomiting occurs, give further water and seek medical advice (SDS).

Regulatory Classification & Transport

Fireblock is not classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road & Rail or the New Zealand NZS5433: Transport of Dangerous Goods on Land (SDS). Standard freight methods apply — no dangerous goods placarding or specialised transport documentation required.

This doesn't reduce the importance of the skin sensitisation hazard. The product carries GHS hazard classification H317 and requires the appropriate signal word on labelling. Handle it accordingly (SDS).

No Hazchem Code applies to this material (SDS). No Poison Schedule is assigned under Australian regulations (SDS).

Safe Work Australia has not assigned a specific occupational exposure limit for this material (SDS). No Biological Limit Value is allocated for the ingredients under the National Model Regulations for the Control of Workplace Hazardous Substances (SDS).

Disposal Requirements

Dispose of contents and containers in accordance with local, regional, national, and international regulations (P501) (SDS). Don't pour unused sealant down drains or dispose of it in general waste. Contact local waste management authorities for guidance on approved disposal methods. Empty cartridges may require special handling if they contained more than residual amounts of product.

Fire Response Characteristics

Fireblock is classified as combustible. Once the aqueous component evaporates, residual material can burn if ignited (SDS). This is common to acrylic polymer systems and doesn't affect the product's fire-rating performance when applied correctly within tested assemblies.

If the material is involved in a fire, use water fog (or fine water spray if water fog is unavailable), alcohol-resistant foam, standard foam, or dry agents such as carbon dioxide or dry chemical powder (SDS). No specialised extinguishing media are required.

When burning or decomposing, the product may emit toxic fumes. Firefighters attending an incident involving this material should wear self-contained breathing apparatus (SCBA) and suitable protective clothing (SDS).

References

- Source PDF: SELLEYS_FIREBLOCK-AUS_GHS.pdf (canonical)

Frequently Asked Questions

What is Selleys Fireblock: A fire-rated acrylic sealant for fire-rated construction

What is Fireblock designed to do: Seal joints and penetrations in fire-rated assemblies

What format does Fireblock come in: 600mL cartridge

What is the product code for Fireblock: 930069711862201

Is Fireblock suitable for residential buildings: Yes

Is Fireblock suitable for commercial buildings: Yes

What type of chemistry does Fireblock use: Water-based acrylic polymer system

What is the key active fire-retardant ingredient in Fireblock: Boron zinc hydroxide oxide

What is the CAS number for the active ingredient: 138265-88-0

What percentage of boron zinc hydroxide oxide is in Fireblock: 1–5% by weight

How does the active ingredient work in a fire: It expands and forms an insulating char layer

What type of reaction does the active ingredient drive: Endothermic reactions that absorb heat energy

Does Fireblock expand when exposed to fire: Yes, it acts as an intumescent agent

Is Fireblock classified as combustible: Yes

Why is Fireblock classified as combustible: Residual material can burn after the aqueous component evaporates

Does the combustible classification affect fire-rating performance: No, when applied correctly within tested assemblies

What is the GHS hazard classification for Fireblock: Skin sensitisation Category 1B (H317)

What is the signal word on Fireblock's label: Warning

Is the signal word on the label mandatory: Yes

What PPE is mandatory when using Fireblock: Safety shoes, overalls, nitrile rubber gloves, and safety glasses

Are nitrile rubber gloves suitable for intermittent contact: Yes

Is PPE optional when using Fireblock: No, it is mandatory

Where should Fireblock be stored: Cool, dry, well-ventilated place out of direct sunlight

Must the storage area be locked: Yes (P405)

Should Fireblock be kept out of reach of children: Yes (P102)

Should containers be kept upright during storage: Yes

What happens if Fireblock is spilled: The material becomes slippery

How should small spills be cleaned up: Wipe with absorbent material such as clean rags or paper towels

What should be done with collected spill material: Seal in properly labelled containers for disposal

What should be done for large spills: Clear the area of all unprotected personnel immediately

What should large spills be covered with: Damp absorbent material, inert material, sand, or soil

Should dust be avoided when cleaning up spills: Yes

What should be done if spills reach waterways: Advise local emergency services immediately

What is the Australian Poisons Information Centre phone number: 131 126

What is the New Zealand Poisons Information Centre phone number: 0800 764 766

What should be done for inhalation exposure: Remove victim from the area immediately

Should vomiting be induced if Fireblock is ingested: No

What should be given if Fireblock is ingested: A glass of water to drink

What should be done for skin contact with Fireblock: Flush skin and hair with running water

What should be done for eye contact with Fireblock: Wash out immediately with water

Should medical advice be sought after eye contact: Yes, in all cases

Is Fireblock classified as Dangerous Goods for transport: No

Does Fireblock require dangerous goods placarding: No

Does Fireblock have a Hazchem Code: No

Does Fireblock have a Poison Schedule in Australia: No

Is there an assigned occupational exposure limit for Fireblock: No

Is there a Biological Limit Value for Fireblock ingredients: No

What extinguishing media can be used if Fireblock catches fire: Water fog, alcohol-resistant foam, standard foam, or dry agents

Can dry chemical powder be used to extinguish Fireblock fires: Yes

Can carbon dioxide be used to extinguish Fireblock fires: Yes

Should firefighters wear breathing apparatus when Fireblock is burning: Yes, self-contained breathing apparatus (SCBA)

Can Fireblock emit toxic fumes when burning: Yes

Is ventilation required during application: Yes, natural ventilation is required

Should Fireblock be applied near heat or ignition sources: No

Should hands be washed before eating after using Fireblock: Yes

Should contaminated clothing be washed before reuse: Yes

What applications is Fireblock used for: Sealing service penetrations, construction joints, and gaps in fire-rated assemblies

Can Fireblock be used on fire-rated walls: Yes

Can Fireblock be used on fire-rated floors: Yes

Can Fireblock be used on fire-rated ceiling assemblies: Yes

Should Fireblock be read for safety precautions before use: Yes (P202)

What should be done if exposed or concerned after use: Seek medical advice immediately (P308+P313)

How should Fireblock be disposed of: In accordance with local, regional, national, and international regulations (P501)

Should unused Fireblock be poured down drains: No

Should the product container be kept on hand if medical advice is needed: Yes (P101)

Does Fireblock require specialised transport documentation: No

What differentiates Fireblock from standard acrylic sealants: Fire-retardant chemistry with intumescent active ingredient

Who is Fireblock intended for: Construction professionals, fire safety contractors, and builders

What is the purpose of fire compartmentation: To prevent spread of flames and smoke through construction gaps

Is curing undisturbed after application critical: Yes, to ensure rated fire performance

---

Label Facts Summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified Label Facts

- **Product Name:** Selleys Fireblock - **Product Type:** Fire-rated acrylic sealant - **Format:** 600mL cartridge - **Product Code:** 930069711862201 - **Chemistry:** Water-based acrylic polymer system - **Key Active Ingredient:** Boron zinc hydroxide oxide (CAS 138265-88-0) - **Active Ingredient Concentration:** 1–5% by weight - **Combustibility Classification:** Classified as combustible; residual material can burn after aqueous component evaporates - **GHS Hazard Classification:** Skin sensitisation Category 1B (H317) - **Signal Word:** Warning - **Mandatory PPE (P280):** Safety shoes, overalls, nitrile rubber gloves, safety glasses or eye protection - **Gloves for Intermittent Contact:** Nitrile rubber gloves suitable; final assessment based on glove construction and local conditions - **Storage Requirements:** Cool, dry, well-ventilated place out of direct sunlight; containers upright and closed when not in use - **Storage Lock Requirement:** Storage area must be locked (P405) - **Keep Out of Reach of Children:** Yes (P102) - **Pre-Use Requirement:** Do not handle until all safety precautions have been read and understood (P202) - **Medical Response Precaution:** If exposed or concerned, seek medical advice immediately (P308+P313) - **Container/Label Retention:** Keep product container or label on hand if medical advice is needed (P101) - **Disposal:** In accordance with local, regional, national, and international regulations (P501) - **Transport Classification:** Not classified as Dangerous Goods under Australian Code for the Transport of Dangerous Goods by Road & Rail or New Zealand NZS5433 - **Hazchem Code:** None assigned - **Poison Schedule (Australia):** None assigned - **Occupational Exposure Limit:** No specific value assigned by Safe Work Australia - **Biological Limit Value:** None allocated under National Model Regulations for the Control of Workplace Hazardous Substances - **Ventilation Requirement:** Natural ventilation required during application - **Fire Extinguishing Media:** Water fog (or fine water spray), alcohol-resistant foam, standard foam, carbon dioxide, or dry chemical powder - **Firefighter Respiratory Protection:** Self-contained breathing apparatus (SCBA) required - **Toxic Fume Risk When Burning:** Yes - **Australian Poisons Information Centre:** 131 126 - **New Zealand Poisons Information Centre:** 0800 764 766 - **Spill Hazard:** Material becomes slippery when spilt - **Ingestion Response:** Do NOT induce vomiting; give a glass of water to drink - **Eye Contact Response:** Wash out immediately with water; seek medical advice in all cases - **Skin Contact Response:** Flush skin and hair with running water - **Source Document:** SELLEYS_FIREBLOCK-AUS_GHS.pdf

---

General Product Claims

- Fireblock is built specifically for fire-rated construction where passive fire protection is required - Fireblock maintains fire compartmentation integrity in commercial and residential buildings - Standard acrylic sealants are inadequate where fire safety is on the line - The boron zinc hydroxide oxide acts as an intumescent and char-forming agent, expanding and insulating when fire temperatures are reached - The active ingredient drives endothermic reactions that absorb heat energy whilst forming an expanded char layer - Fireblock delivers a degree of seal integrity that ordinary sealants cannot achieve - The combustible classification does not affect fire-rating performance when applied correctly within tested assemblies - Curing undisturbed after application is critical to achieving rated fire performance -

Fireblock is intended for use by construction professionals, fire safety contractors, and builders on projects requiring compliance with fire safety regulations and building codes - Applications include sealing service penetrations, construction joints, and gaps in fire-rated walls, floors, and ceiling assemblies - Proper storage maintains product stability and prevents premature curing or component separation

Related Products & Brand Context

Selleys Fireblock AC is part of the **Selleys** brand's fire-rated sealant range, sitting within the broader **Sealants & Caulking** category under Home & Garden. Selleys is an Australian sealants and adhesives brand whose product catalogue spans general-purpose, construction-grade, and specialist sealants. The Fireblock AC positions itself at the specialist end of that catalogue, designed specifically for fire-rated construction rather than everyday gap-filling or weatherproofing tasks.

Within the fire-rated sealant range, the knowledge graph references a sibling product — **Selleys Fireblock XT** — which appears alongside Fireblock AC in Selleys' technical documentation. While the graph context does not detail the full specification differences between the two, their co-presence in the same product family suggests they address related but distinct applications within fire-rated sealing. A buyer selecting Fireblock AC for internal acrylic perimeter seals should check whether Fireblock XT is better suited to their specific joint type or substrate before committing to either.

In terms of use-case adjacencies, anyone applying Fireblock AC is working within a fire-rated construction system, which typically also involves compatible fire-rated materials at the same penetrations or joints — such as fire-rated backer rods, intumescent collars, or fire-rated board systems. The product's own guidelines emphasise consulting a fire certifier or engineer before application, which points to a broader procurement context: specifiers and contractors will often be sourcing multiple compliant products for a single fire-rated assembly rather than selecting this sealant in isolation.

Within the sealants category, Fireblock AC is differentiated from standard acrylic sealants by its **AS1530.4-2014 fire rating of up to 240 minutes**, its acoustic rating exceeding 60 dB (Rw > 60), its UV tracer technology for post-application verification, and its carcinogen-free, isocyanate-free, low-VOC formulation. These properties place it firmly in the commercial and residential construction trade segment rather than the DIY maintenance market, where general-purpose paintable acrylics from the same brand would typically be specified instead.