



Product Technical Statement

Bostik Expanda Pro and Pro Gun Foam

Bostik NZ Ltd manufactures adhesives, sealants, and other products used in building and construction.

Bostik provides technical information to support people giving Provider Statements regarding compliance with NZBC.

A BRANZ appraisal for Bostik Expanda Pro and Pro Gun Foam referring to the NZBC can be found on the Bostik website www.bostik.co.nz.

Product Description and Use

Bostik Expanda Pro and Pro Gun Foam are self-expanding polyurethane foam air seals used around window and door penetrations and other cladding fenestration trim cavities to assist with weathertightness and energy efficiency.

New Zealand Building Code (NZBC)

Bostik Expanda Pro and Pro Gun Foam, if designed, used, installed and maintained in accordance with the statements and conditions of BRANZ Appraisal No. 890 (2015) and the Technical Literature, will meet or contribute to meeting the following provisions of the NZBC:

- **Clause B2 Durability:** Performance B2.3.1 (b), 15 years.
- **Clause E2 External Moisture:** Performance E2.3.2, when used as part of a cladding system Bostik Expanda Pro and Pro Gun Foam will contribute to meeting this requirement.
- **Clause F2 Hazardous Building Materials:** Performance F2.3.1.
- **Acceptable Solution E2/AS1:** Paragraph 9.1.6 – self expanding foam air seal.
- **Alternative Solution** if the cladding system is an alternative solution and or the building is outside the scope limitations of E2/AS1 Paragraph 1.1.

Evidence of compliance

Bostik New Zealand Limited provides this PTS to demonstrate that it has met its responsibilities under S14G of the Building Act. Bostik New Zealand Limited is able to support claims of performance, based on the technical evidence provided within BRANZ Appraisal No. 890 (2015) Bostik Expanda Pro Foam/Pro Gun Foam Air Seals.

Scope of use

Bostik Expanda Pro and Pro Gun Foam are designed to be used for gap filling air seals around window and door trim cavities and wall penetrations, e.g. plumbing pipes. It is designed for use in interior locations, and along with its good gap-filling properties has excellent adhesion to most materials. Two exceptions are polyethylene and polypropylene. However testing on window installations incorporating polyethylene building wraps and polyethylene backed flashing tapes has shown that any potential lack of adhesion between Bostik Expanda Pro and Pro Gun Foam and the polyethylene will not affect its performance as an air seal.

A PEF backing rod complying with ASTM C1330 must be used in all trim cavities and around wall penetrations to support the Bostik Expanda Pro and Pro Gun Foam. At the

same time the backing rod prevents the trim cavity from being completely filled by restricting the depth of the air seal to a maximum of 45mm.

Bostik Expanda Pro and Pro Gun Foam is not designed to overcome poor derailing and workmanship of window or door joinery installation. It is designed to be used in conjunction with flashing systems, not as a substitute.

Technical Literature:

The following Technical Literature available from the Bostik website: www.bostik.co.nz, and must be followed to ensure compliance when Bostik Expanda Pro and Pro Gun Foam is used.

- Bostik Expanda Pro and Pro Gun Foam Technical Data Sheet

Maintenance Requirements

Repair as required.

More information:

Further Information available from the Bostik website: www.bostik.co.nz:

- Material Safety Data Sheet

Expected product life

It is expected that Bostik Expanda Pro and Pro Gun Foam will have a life of at least 15 years when applied by a skilled contractor in accordance with specifications and recommended methods of application.

The life expectancy does not take into account failure or breakdown of Bostik MS Safe Fix partially or wholly due to:

- faulty or unskilled application
- incorrect storage of the product
- use of the product outside of its recommended shelf life
- use other than as recommended
- not inspecting the product regularly and repairing any defects
- factors and conditions outside the control of Bostik, including but not limited to:
 - movement of the substrate or structural cracking
 - hydrostatic pressure or entrapped moisture
 - maltreatment, such as mechanical damage, at any time of the product
 - faulty design and/or construction of the premises leading to weather – tightness issues.

Differing materials, substrates, environments, site conditions, product storage, handling and application may affect results.

Warranty

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 out of date product. To the maximum extent permitted by law Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Consumer Guarantees Act 1993. Any liability arising from use of the product is limited to the replacement or purchase price of the product.

Contact

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