



**BRANZ Appraised**  
Appraisal No. 1216 [2022]

**SELLEYS SEALANTS**



**Appraisal No. 1216 [2022]**

### BRANZ Appraisals

Technical Assessments of products for building and construction.



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### BRANZ

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## Product

1.1 Selley's Sealants are used for exterior weatherproofing and as general purpose gap-filling sealants for exterior and interior use.

## Scope

- 2.1 Selley's Sealants have been appraised for use as sealants in buildings within the following scope:
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1.
- 2.2 Selley's Sealants have also been appraised for use as sealants in buildings subject to specific design within the following scope:
- in joints with a maximum width of 35 mm; and,
  - on substrates of:
    - timber (unpainted and unstained), untreated pine and untreated Jarrah; or,
    - plastics – uPVC, perspex and fibreglass; or,
    - minerals – concrete, mortar, plaster, blockwork, fibre cement sheet, earthenware (terracotta) and glazed ceramic tiles; or,
    - metals – stainless steel, aluminium (milled or anodised), painted and unpainted metals (galvanised, zinc/aluminium-coated); or,
    - glass.

*[Note: Substrates or materials other than those specified above have not been assessed and are outside the scope of this Appraisal. Selley's (A Division of Dulux Group NZ Ltd) must be consulted when proposing the sealing of material not specifically covered by this Appraisal.]*

## Building Regulations

### New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Selley's Sealants, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:

**Clause B2 DURABILITY:** Performance B2.3.1 [b] 15 years and B2.3.1 [c] 5 years. Selley's Sealants meet these requirements. See Paragraphs 8.1-8.4.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. When used as part of the cladding system, Selley's Sealants contributes to meeting this requirement. See Paragraphs 12.1-12.3.

**Clause E3 INTERNAL MOISTURE:** Performance E3.3.3, E3.3.4, E3.3.5 and E3.3.6. When used as part of the substrate lining or finishing system, Selley's Sealants contributes to meeting these requirements. See Paragraph 13.1.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Selley's Sealants meet this requirement.



## Technical Specification

4.1 Selleys Sealants are silicone or polyurethane -based weather sealing sealants for exterior use and as a general purpose gap-filling sealant for exterior and interior use. They are available in various colours and sizes as detailed in Table 1.

**Table 1: Selleys Sealants**

Product	Colour	Sizes
Selleys Roof & Gutter	Translucent	310 g
	Black	600 ml
	Woodland Grey	310 g
	White	300 g
	Surf mist	300 g
	Classic Cream	300 g
	Shale Grey	300 g
	Grey	310 g
		600 ml
	Ironstone	300 g
Dune	300 g	
Selleys Wet Area (Interior Only)	White	300 g
	Clear	300 g
	Light Grey	300 g
	Dark Grey	300 g
	Mocha	300 g
	Off white	300 g
	Black	300 g
Flexi Seal	White	310 ml
		600 ml
	Black	310 ml
		600 ml
	Grey	310 ml
		600 ml
Selleys Pro-Trade Wet Area Sealant	Clear	300 g
	White	300 g
Selleys Pro-Trade Roof & Gutter Sealant	Clear	300g
	Black	300g
	Grey	300g

## Handling and Storage

- 5.1 The handling and storage of Selleys Sealants on-site is the responsibility of the installer. Selleys Sealants have a shelf life of 18 months from the date of production - except Selleys Flexi Seal, which has a shelf life of 12 months from date of manufacture - if stored in unopened packaging under dry, cool conditions at temperatures of between 5 and 25°C. The products must be stored out of direct sunlight.

## Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for Selleys Sealants. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.
- 6.2 Some installation instructions are also provided on the packaging. Note that the packaging labels may also refer to uses outside the scope of this Appraisal.

## Design Information

### General

- 7.1 Selleys Sealants are designed to be used as gap-filling sealants in building construction joints for the exclusion of moisture. They may be used in both interior and exterior locations, and along with their high elasticity and good adhesion, they are suitable for use with a wide range of substrates. Compatibility tests on some porous stones is required as staining can occur in some instances. Refer to Selleys [A Division of Dulux Group NZ Ltd] for further advice.
- 7.2 The design of weathertight joints and detailing for all applications must be in accordance with good design principles. In most situations, joint design should see the sealants used as a first line of defence, in conjunction with flashings (second line of defence), which drain to the building exterior. Other good design principles include the optimum width to depth ratio, correct sealant profile, and use of a bond breaker system. Refer to BRANZ Bulletin No. 584 and 601 for further information.
- 7.3 A bond breaker is required in all joints, and with shallow joints the bond breaker may be a self-adhesive polyethylene tape. In deeper joints, a polyethylene backer rod must be used to act as the bond breaker and at the same time set the joint depth and support the sealant.
- 7.4 The performance of Selleys Sealants makes them suitable sealants for weathersealing exterior wall constructions. It is important however that the sealant/bond breaker rain screens are backed by a waterstop or air seal so that a free-draining enclosed joint cavity is formed. This is particularly important for walls that extend over one storey in height. In weathersealing applications, the bottom of vertical joints must be open to allow water drainage. Horizontal joints between thin sheet materials, e.g. plywood or fibre cement, should be weathersealed with Z flashings and not a sealant. Horizontal joints in other materials must be rebated and the seal formed at or near the top of the rebate. All joints must be designed to drain to the exterior of the building.
- 7.5 For optimum adhesion and in critical, high performance applications such as multi-storey building work, high stress joints or extreme weather exposure, the use of substrate primers and cleaners is required. Selleys [A Division of Dulux Group NZ Ltd] must be consulted where doubt arises. Any surface priming or activation must be undertaken in accordance with the instructions of Selleys [A Division of Dulux Group NZ Ltd].
- 7.6 Selleys [A Division of Dulux Group NZ Ltd] must be consulted when proposing the sealing of material not specifically covered by this Appraisal.

### Durability

- 8.1 Assessment of durability to meet the NZBC is based on difficulty of access and replacement of the sealant, and the ability to detect failure of the sealants both during normal use and maintenance of the building. Therefore durability requirements for the sealants will vary according to the situations in which they are used [e.g. exterior and interior use, exposed or covered].
- 8.2 Selleys Sealants meet code compliance with NZBC Clause B2.3.1 [b] 15 years for exterior use, and code compliance with NZBC Clause B2.3.1 [c] 5 years for interior use.

### Serviceable Life

- 8.3 When used and applied in accordance with the Technical Literature and this Appraisal, it is expected that weathertightness or gap-filling seals undertaken with Selleys Sealants will remain serviceable for 15 years or more in exterior environments.
- 8.4 In dry interior environments where the product is inaccessible and completely sheltered from exposure to ultraviolet [UV], chemicals, solvents, temperature extremes and excessive movement, a serviceable life of up to 50 years or more may be expected.

### Maintenance

- 9.1 In accessible areas, inspections must be carried out annually to check for cracks or gaps between the sealant and substrate. Where this has occurred, the unsound sealant must be raked out, the substrate prepared and the joint filled with fresh sealant.

### Prevention of Fire Occurring

- 10.1 Separation or protection must be provided to Selleys Sealants from heat sources such as fireplaces, heating appliances, flues and chimneys. Part 7 of NZBC Verification Method C/VM1 and Acceptable Solution C/AS1, and NZBC Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

### Control of Internal Fire Spread

- 11.1 When used internally on construction that does not require a fire resistance rating, sealants [caulking] are exempt from surface finish requirements by NZBC Acceptable Solution C/AS1, Part 4, Paragraph 4.3 e) and NZBC Acceptable Solution C/AS2, Paragraph 4.17.6 e).

### External Moisture

- 12.1 Selleys Sealants comply with Type F, Class 20 or 25 LM of ISO 11600, and therefore may be used whenever a sealant of this type is specified in NZBC Acceptable Solution E2/AS1.
- 12.2 Selleys Sealants can be used with a range of exterior construction methods and materials to meet the requirements of NZBC Clause E2. They can be used, for example, in the control joints of masonry veneer, to weatherproof the joints between fibre cement weatherboards, to seal around pipes and penetrations, or to weatherproof joints between flashings and claddings. Selleys Sealants can be used as an air seal around window, door and other penetrations, in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.6 c [ii].
- 12.3 It is the responsibility of the designer, builder or contractor to ensure sound joint design principles are followed. Designers, builders or contractors must ensure that second line of defence flashings drain to the building exterior, they are suitable for the particular application under consideration, and that they are installed correctly.

### Internal Moisture

- 13.1 Selleys Sealants can be used to form impervious joints between sheet lining materials and also a joint between fixtures and lining materials in accordance with NZBC Acceptable Solution E3/AS1, Paragraph 3.2.2 to prevent water splash penetrating behind linings or into concealed spaces.

## Installation Information

### Installation Skill Level Requirement

14.1 Selleys Sealants are for use by general tradespersons and handypersons in straight-forward applications. However, for more technically difficult applications, especially on larger commercial and industrial type buildings, application should be undertaken only by those experienced in the application of sealants to expansion and construction joints. All installations must be in accordance with the instructions given within the Technical Literature and this Appraisal.

### General

- 15.1 Before the application of primers and sealant, substrate surfaces must be clean, dry and free from any surface contaminants such as dirt, dust, oil or existing coatings and paints.
- 15.2 Primers are not to be used as a substitution for surface cleaning and preparation. Primers must be applied in a uniform manner to ensure an even film thickness of primer is achieved. Primers must be fully cured before the application of Selleys Sealants. Cure rates will slow down as temperatures decrease.
- 15.3 Sealant application must be carried out when the sealant and substrate temperature is within the range of 5 to 30°C.
- 15.4 Installation of the sealants can be undertaken using a manual or pneumatically operated caulking gun at an angle to eliminate the inclusion of air pockets. The sealants should be tooled off to achieve a smooth finish and to compress them, promoting adhesion to the joint walls.

### Health and Safety

16.1 Safe use and handling procedures for Selleys Sealants are provided on the packaging. Additional information on the products is available in Material Safety Data Sheets available from Selleys [A Division of Dulux Group NZ Ltd] .

## Basis of Appraisal

The following is a summary of the technical investigations carried out:

### Tests

17.1 Selleys Sealants have been tested to EN 15651 - 1 or ISO11600 and meet the requirements of ISO 11600 for Type F, Class 20 or 25LM sealants. BRANZ has completed QUV-A exposure on the sealants with satisfactory results.

### Other Investigations

- 18.1 Technical data sheets and Material Safety Data Sheets for the Selleys Sealants have been obtained by BRANZ and found to be satisfactory.
- 18.2 A durability opinion has been given by BRANZ technical experts.

### Quality

- 19.1 The manufacture of the products has not been examined by BRANZ, but details of the quality and composition of the materials used were obtained and found to be satisfactory.
- 19.2 Quality of supply to the market is the responsibility of Selleys [A Division of Dulux Group NZ Ltd] .
- 19.3 Quality of installation of the products on site is the responsibility of the sealant installer.
- 19.4 The quality of installation of the substrates is the responsibility of the substrate installer in accordance with the substrate manufacturers instructions.
- 19.5 Building designers are responsible for the design of the joints, and for the incorporation of the sealant into their design in accordance with the instructions of Selleys [A Division of Dulux Group NZ Ltd] .
- 19.6 Building owners are responsible for the maintenance of Selleys Sealants in accordance with the instructions of Selleys [A Division of Dulux Group NZ Ltd] .



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## Sources of Information

- BRANZ Bulletin No. 584 Sealed Joint Design - Claddings.
- BRANZ Bulletin No. 601 Sealants for Cladding Joints.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



In the opinion of BRANZ, **Selleys Sealants** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Selleys [A Division of Dulux Group NZ Ltd]**, and is valid until further notice, subject to the Conditions of Appraisal.

### Conditions of Appraisal

1. This Appraisal:
  - a) relates only to the product as described herein;
  - b) must be read, considered and used in full together with the Technical Literature;
  - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
  - d) is copyright of BRANZ.
2. **Selleys [A Division of Dulux Group NZ Ltd]**:
  - a) continues to have the product reviewed by BRANZ;
  - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
  - c) abides by the BRANZ Appraisals Services Terms and Conditions;
  - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
  - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
  - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
  - c) any guarantee or warranty offered by **Selleys [A Division of Dulux Group NZ Ltd]**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Selleys [A Division of Dulux Group NZ Ltd]** or any third party.

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**For BRANZ**



**Chelydra Percy**

Chief Executive

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12 October 2022