BRANZ Appraised

Appraisal No. 1237 (2024)

ADMIL SEALANTS

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BRANZ Appraisals

Technical Assessments of products for building and construction.

Product

1.1 Admil Sealants are suitable for exterior weatherproofing and as general purpose gap-filling sealants for exterior and interior use.

Scope

2.1 Admil 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 Admil 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. Selleys (DuluxGroup (New Zealand) Pty Ltd) must be consulted when proposing the sealing of material not specifically covered by this Appraisal.)

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WFTAO
WORLD FEDERATION OF TECHNICAL ASSESSMENT ORGANISATIONS

Building Regulations

New Zealand Building Code (NZBC)

3.1 **In the opinion of BRANZ, Admil 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. Admil 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, Admil Sealants contribute 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, Admil Sealants contribute to meeting these requirements. See Paragraph 13.1.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Admil Sealants meet this requirement.

Technical Specification

4.1 Admil 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: Admil Sealants

Product	Colour
Admil N192 Roof & Gutter	Black
	Grey
	Light Grey
	Off White
	Translucent
	White
Admil N600 Wet Area (Interior Only)	Translucent
	Mid Grey
	Tile Grey
	Stone Beige
	Off White
	Snag White
	White
Prosil 10	Black
	Classic Cream
	Light Grey
	Off White
	Translucent
	White
	Woodland Grey
Prosil 30	Translucent

Product	Colour
Supasil 110	R&G Black
	R&G Classic Cream
	R&G Grey
	Translucent
	White
	Woodland Grey
Supasil 135	W&G Translucent
Supasil 160 (Interior Only)	Wet Area Mid Grey
	Wet Area Off White
	Wet Area Tile Grey
	Wet Area Translucent
	Wet Area White

Handling and Storage

5.1 The handling and storage of Admil Sealants on-site is the responsibility of the installer. Admil Sealants have a shelf life of 12 months from the date of manufacture if stored in unopened packaging under dry, cool conditions at temperatures below 28°C. The products must be stored out of direct sunlight.

Technical Literature

6.1 This Appraisal must be read in conjunction with:

Table 2: Technical Literature

Title	Version	Date
TDS - Professional Prosil 10	N/A	17/06/2022
TDS - Professional Prosil 30	N/A	17/06/2022
TDS - Roof and Gutter N-192	Rev 5	17/06/2022
TDS - Professional Wet Area N600	N/A	17/06/2022
TDS - SupaSil 110 Roof & Gutter Silicone	Version 1.0	07/04/2022
TDS - SupaSil 135 Window and Glass Silicone	Version 1.0	07/04/2022
TDS - SupaSil 160 Wet Area Silicone	Version 1.0	07/04/2022

6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

7.1 Admil 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 (DuluxGroup (New Zealand) Pty 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 Admil 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 (DuluxGroup (New Zealand) Pty Ltd) must be consulted where doubt arises. Any surface priming or activation must be undertaken in accordance with the instructions of Selleys (DuluxGroup (New Zealand) Pty Ltd).

7.6 Selleys (DuluxGroup (New Zealand) Pty Ltd) must be consulted when proposing the sealing of material not specifically covered by this Appraisal.

Durability

8.1 The assessment of durability to meet the requirements of 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 Admil 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 Admil 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 Admil Sealants from heat sources such as fireplaces, heating appliances and chimneys. Part 7 of NZBC Acceptable Solution C/AS1 and NZBC Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

Fire Affecting Areas Beyond the Fire Source

11.1 When used internally on construction that does not require a fire resistance rating (FRR), sealants (caulking) are exempted from surface finish requirements by NZBC Acceptable Solution C/AS1, Paragraph 4.2.2.1 (e) and NZBC Acceptable Solutions C/AS2, Paragraph 4.17.6 (e).

External Moisture

12.1 Admil 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 Admil 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. Admil 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 Moistures

13.1 Admil 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 Admil 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 Admil 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 5-30°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 Admil Sealants are provided on the packaging. Additional information on the products is available in Material Safety Data Sheets available from Selleys (DuluxGroup (New Zealand) Pty Ltd).

Basis of Appraisal

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

Tests

17.1 Admil Sealants have been tested to EN 15651-1 or ISO 11600 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 Admil 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 (DuluxGroup (New Zealand) Pty 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 (DuluxGroup (New Zealand) Pty Ltd).

19.6 Building owners are responsible for the maintenance of Admil Sealants in accordance with the instructions of Selleys (DuluxGroup (New Zealand) Pty Ltd).

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.

BRANZ

In the opinion of BRANZ, Admil 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 (DuluxGroup (New Zealand) Pty 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 (DuluxGroup (New Zealand) Pty 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 quality of work;
   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 (DuluxGroup (New Zealand) Pty 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 (DuluxGroup (New Zealand) Pty Ltd) or any third party.

For BRANZ

Claire Falck
Chief Executive
Date of Issue:
08 May 2024