



ProSeal2 BLN100

Technical Data Sheet

ProSeal2 BLN100 Series Neutral Cure Silicone Sealants offer superior proven performance, reliability for general purpose sealing and many specialised glazing applications. ProSeal2 BLN100 Series features excellent adhesion, weatherability and flexibility for glazing and curtainwall sealing applications. It is also well suited for sealing skylights, air conditioning systems, metal/plastic signs, glass block structures and many other substrates

PRIMERLESS ADHESION TO:

- Annealed Glass
- Laminated Glass
- Most Coated Glass
- Steel
- Anodised Aluminium
- Powder coated Aluminium
- Glazed Surfaces
- Timber
- Masonry
- Zinc
- Many Plastics

It is recommended to always test applications to verify adhesion under actual conditions

TESTING TO AS/NZS 1530.3-1999 Methods for Fire Tests on Building Materials, Components and Structures Face

Test Conducted By		
Australian Wool Testing Authority Ltd - trading as AWTA		
Product Testing		
Date tested: 21/03/2019		
Test Number		19-001116
Number of specimens tested:		6
Regulatory Indices:	Result	Range
Ignitability Index	11	0-20
Spread of Flame Index	0	0-10
Heat Evolved Index	2	0-10
Smoke Developed Index	5	0-10

SURFACE PREPARATION

The Condition of the Substrate

All surfaces to receive sealant should be clean and dry and free of contaminants such as oil, grease, wax, water or surface dirt.

Remove any oxidised material such as aluminium oxide or rust from the substrate prior to cleaning.

Impervious Substrates i.e. Glass, Powder-coat, Steel

Cleaning should be by an approved solvent cleaner, such as Isopropyl Alcohol (IPA)

Use the "two wipe" solvent technique when cleaning glass adopting the following procedures:

Use only clean, lint free cloths or lint-free paper towels. Non-absorbent cloths, such as nylon are not acceptable.

Use one cloth to apply solvent by vigorously rubbing the substrate then wipe the solvent off with another cloth before the solvent has flashed-off or evaporated. **DO NOT USE THE SAME CLOTH TO APPLY SOLVENT AND TO DRY THE SUBSTRATE.**

Pour solvent onto the cloth; do not place the cloth into solvent container.

Do not re-use the same cloth, discard the dirty cloth.

Soap or other detergents are not acceptable for cleaning a substrate.

Place all gaskets, wedges or backing rods before cleaning the substrate.

Apply sealant immediately after cleaning. Do not leave cleaned areas before sealing.

Plastics

Plastic is a generic description to describe a number of materials.

Plasticisers used in the compounding of plastic can vary from time to time. Some plasticisers can have a negative reaction with the cure of sealants and/or affect the adhesion bond.

Solvents tend to damage plastics. We therefore recommend that you only adhere to the face with protective covering, that the protective covering is not removed until the last minute and that the surface you intend to adhere to is checked first to ensure that the adhesive from the protective film has not remained on the plastic.

Note that there are some plastics that nothing will adhere to such as Polyethylene and Polypropylene

Preparation of Concrete and Porous Surfaces

Mechanically abrade concrete to ensure the removal of all laitance, loose particles, form oils, release agents etc.

When re-sealing existing joints the preparation should be by saw cutting to widen the joint and remove concrete that is contaminated with dirt and grease. For new concrete that is clean and sound angle grinding or grit blasting will be suitable for preparing the surface.

Remove any dust grinding grit etc. with a clean brush or oil free compressed air.

Do not use solvents to clean the concrete as this will force any oil or release agent present on the surface into the concrete.

PHYSICAL PROPERTIES

Base	Silicone
Consistency	Stable Paste
Curing System	Moisture Cure Oxime Silicone
Skin formation	Approx. 10 min.
Curing Rate	1.5mm/24h
Hardness—Translucent	Shore A—27
Hardness—Coloured	Shore A—32
Temperature Resistance	-20°C to +120°C
Joint Movement Capability	±25%
Ultimate Tensile Strength ASTM D412	1.10 MPa
Ultimate Elongation at Break ASTM D412	400 %
Maximum Tension	1.1 MPa

SURFACE PREPARATION—Cont.

Natural Stone

B&L ProSeal2 ***is not recommended*** for natural stone.

Adhesion

When sealant **adhesion** is critical to the projects success we recommend the completion of adhesion tests before work commences. Contact your local APTC Australia Pty Ltd. representative who will provide such testing free of charge.

Primers

Primers are not usually required for ProSeal2 however if primer is required be sure to install all backing rods, tapes, rubbers and any other back up materials before the application of primer.

Follow the instructions for primer application detailed in the application instructions for the specified primer.

Ensure all back up materials, joint fillers, gaskets and setting blocks are held firmly in place and that the space allowed for the sealant is constant.

SEALANT APPLICATION

B&L ProSeal2 is not a structural silicone. For structural applications contact APTC Australia Pty Ltd for product recommendations and joint design information.

Avoid sealing joints with 3 sided adhesion as this will significantly reduce the sealants ability to work in the application.

For weather seal applications the joint size is to be not less than 6mm x 6mm, for a joint width of 15mm the depth is to be 8mm and for a joint width of 30mm the depth is to be 10mm. Consult the relevant data sheets to calculate the minimum joint width for the expected joint movement.

Apply sealant to clean dry surfaces only.

Use a suitable polyethylene-backing rod to control the joint depth and to ensure that the silicone adequately wets out the substrate.

Do not place closed cell polyethylene rod with a sharp application tool as this may rupture the surface and cause subsequent bubbling of the sealant. Escaping "blowing gas" from the closed cell structure of the backer rod causes this. If masking tape is used, apply tape so that it does not interfere with the areas to be sealed and remove it immediately after tooling the sealant

SPECIFICATION

Meets the requirements of: CNS 8903 A 2136 SR-1-9030-A-N, BS 5889 Type B, BS EN ISO11600 20LM



Apply sealant firmly to ensure all cavities are filled and that air pockets are dispelled. Tooling of the sealant should take place immediately after the sealant has been run into place.

Clean up excess sealant before the sealant has cured with a scraper and a rag moistened with solvent. Take care not to damage the substrate in cleaning up excess sealant.

COMPATIBILITY WITH ADJACENT SUBSTRATES & CHEMICAL AGENTS

Silicone Sealants are not always compatible with plasticised sealants, some backing materials, many cleaning agents and solvent or oil based paints. Incompatibility may cause discoloration, poor sealant cure or long term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs.

DESIGN SUPPORT

Joint design and surface preparation are critical to the success of your project. APTC Australia strongly recommends that you consult an APTC Technical Representative to discuss and finalise the design and surface preparation to be used before commencing application of the sealant. APTC Australia will also review shop or working details, test substrates and associated materials for compatibility and adhesion and will make sealant recommendations when requested.

STORAGE & SHELF LIFE

Always store the sealant in a cool dry place. The ideal storage temperature is not more than 25°C. Prolonged storage at high temperatures may affect shelf life and ultimate performance. The B&L ProSeal2 BLN100 series has an expiry date printed on the top of the cartridge and should be stored below 25°C and 50% relative humidity.

Out of shelf life products will not perform to the stated specification.

LIMITATIONS

ProSeal2 BLN100 Series is NOT suitable for use in the following application:

- Where there does not have access to the atmospheric humidity required to make it cure;
- Structural Glazing;
- Aquariums;
- Stone & Porous substrates that may be subject to staining. (Stain testing & approval must sought before use);
- Under water & below grade applications (Including swimming pools);
- This product is NON-PAINTABLE;

HEALTH & SAFETY



DANGER for Translucent

WARNING for Colours

ProSeal2 BLN100 Series is hazardous according to the criteria of Safe Work Australia. Use the product in accordance with good occupational, health & safety practices. It may cause irritation if swallowed and is

moderately irritating to eyes. Repeated or prolonged skin contact may lead to irritation. High concentrations of vapour may irritate respiratory tract. ProSeal2 BLN100 Series releases Methylethylketoxime (Meko) until fully cured. Do not swallow and avoid contact with the skin as this may cause sensitisation. If contact with the eyes occurs, wash eyes with copious quantities of water and consult a doctor if irritation persists.

The Safety Data Sheet defining the known hazards and describing the appropriate safety precautions with respect to the product is available through APTC Australia Pty Ltd.

IMPORTANT NOTICE FOR USERS

APTC AUSTRALIA SOLE WARRANTY IS THAT ALL PRODUCTS WILL MEET THE APTC AUSTRALIA CURRENT SALES SPECIFICATIONS ALL OF WHICH ARE AVAILABLE THROUGH COMMERCIAL AGENCY.

APTC Australia based the information and data contained in this publication on current specifications of the product. The properties of individual batches of sealant may vary from the results published as mean results achieved, however the APTC Australia Quality Control System (QCS) will ensure that they always falls within an acceptable tolerance of the published figures. As the application, use and processing of the product are beyond the control of APTC Australia, APTC Australia disclaims any warranty for fitness for use or for a particular purpose.

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