



Silicone Sealants



BLN100 Neutral Cure Series

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



Technical Data

Primerless Adhesion To:

(Test applications always to verify adhesion under actual conditions. Consult B&L Quality Products before application).

- Annealed Glass
- Laminated Glass
- Most Coated Glass
- Steel
- Anodised Aluminium
- Powdercoated Aluminium
- Galvanised Surfaces
- Timber
- Masonry
- Zinc
- Many Plastics

Dynamic Joint Movement:

(Continuous extension & compression 3.2mm per hour)
±25%

Minimum Joint Dimensions:

(Width x Depth)
5mm x 5mm

Maximum Joint Dimensions:

(Width x Depth)
30mm x 15mm

Tooling Time:

(20°C @ 65% RH)
10 minutes

Tack Free Time:

(Fed. Spec. TT-S-001543A)
1 hour

Cure Time:

(To 10mm depth @ 20°C & 65°C RH)
2mm - 24 hours

Substrate Temperature

at Application:
+2°C to +55°C

- **Very Low Odour**
- **Very Low VOC (Volatiles)**
- **Very Low MEKO Content**

Performance Range:

-60°C to +180°C

Hardness (Shore A):

(ASTM D412)
22

Tensile Strength:

(ASTM C794)
Trans - 1.3 MPa
Colours - 1.5 MPa

Peel Strength on Glass:

(ASTM C794) N/25mm
50

Modulus @ 100% Elongation:

KPA
Trans - 0.3 MPa
Colours - 0.35 MPa

Sag/Slump:

Nil

Cure Method:

Oxime

Packaging:

300ml Cartridges

Available Colours:

BLN190 Precast White
BLN192 Trans
BLN193 Black - BLN195 Light Grey
BLN196 White - BLN197 Sandstone

Available From:



Head Office & Keysborough Branch
18-22 Pacific Drive, Keysborough Vic 3175

North Melbourne Branch
275-285 Macaulay Rd North Melbourne Vic 3051
Tele: 1300 394 239 Fax: 1300 394 279

Sealant Application

Joint design

The sealant must be capable of withstanding the expected joint movement. B&L Silicone Sealants provide a data sheet on 'Joint Design' with information on the correct design required to obtain the performance capabilities of the sealant. The data sheet includes a formula to calculate the required joint width, based on the expected joint movement and the dynamic movement capability of the sealant. The joint design must avoid three-sided adhesion. The sealant depth for a weatherseal is normally half the joint width. The minimum acceptable joint depth is 6mm: Therefore, if the required joint width is 6mm the depth is also 6mm.

Back Up Material

Use a closed cell polyethylene backing rod, 25% larger than the joint width. This will reduce sealant wastage, control the depth of the joint and avoid three-sided adhesion in typical joints.

Compatibility with Adjacent Substrates & Chemical Agents

Silicone Sealants are not always compatible with plasticised sealants, some backing materials, many cleaning agents and solvent/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.

Application

A detailed data sheet outlining the correct procedures is available from **B&L Quality Products**. Always ensure that the surfaces to be sealed are sound, dry and free from oil, dirt and grease. Use the two wipe process for impervious substrates. Using **clean** cloths and a suitable solvent such as B&L IPA. For porous surfaces such as concrete, abrade the surface to remove loose particles, release and curing agents. When extruding the sealant cut the nozzle to the desired width. Cut the tip off the cartridge and apply the sealant firmly to ensure good contact between the sealant and the substrate.

Before the sealant has skinned, tool it off to ensure a good finish and improve the 'wetting out' to the substrate. To achieve satisfactory adhesion a primer may be required for some substrates. Consult **B&L Quality Products** or your distributor for more information.

Curing

ProSeal2 BLN100 Series cures by absorbing atmospheric moisture. It will skin over in approx 8 minutes and cure to a depth of 7mm in 7days.

Design Support

Because of the importance of surface preparation, sealant application and joint design, **B&L Quality Products** will provide specific Data Sheets on these topics. **B&L Quality Products** strongly recommends that you consult these Data Sheets before commencing application of the sealant. **B&L Quality Products** 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 effect shelf life and ultimate performance. The self life details are on the front of this document and starts from the date of manufacture when stored below 25°C and 50% relative humidity. Out of self life products will not perform to the stated specification.

Limitations

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

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

Health & Safety

ProSeal2 BLN100 Series is not classified as Dangerous Goods. ProSeal2 BLN Series is classified as a Hazardous Substance according to the ADG Code & Worksafe Australia respectively. Use the product in accordance with good occupational, health & safety practices. It may cause irritation if swallowed and 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 Material Safety Data Sheet defining the know hazards and describing the appropriate safety precautions with respect to the product is available through **B&L Quality Products Pty Ltd**.

Important Notice for Users

B&L QUALITY PRODUCTS SOLE WARRANTY IS THAT ALL PRODUCTS WILL MEET THE **B&L QUALITY PRODUCTS** CURRENT SALES SPECIFICATIONS ALL OF WHICH ARE AVAILABLE THROUGH COMMERCIAL AGENCY.

B&L Quality Products 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 **B&L Quality Products** Quality Control System (QCS) will ensure that they always within an acceptable tolerance of the published figures. As the application, use and processing of the product are beyond the control of **B&L Quality Products**, **B&L Quality Products** disclaims any warranty for fitness for use or for a particular purpose.