



Seal 'N' Flex® Premium P795

HIGH PERFORMANCE PU SEALANT & ADHESIVE IN ONE

TECHNICAL SHEET 13/07/2023

SMART ADVANTAGES

- 2 in 1 sealant and adhesive application
- High modulus, high mechanical resistance
- +100%/-50% joint movement
- Bubble-free curing
- Applicable on damp or moist substrates
- Unaffected by tooling method
- Hazard label free
- Sag free, easy tooling
- Permanently elastic
- UV Resistant
- Paintable*
- Made in Australia

DESCRIPTION

Bostik Seal 'N' Flex® Premium P795 is a new generation, high modulus polyurethane sealant and flexible adhesive in one. Designed for sealing construction and expansion joints and joints in pedestrian walkways, it can also be used as an elastic adhesive for most common building materials. When cured it will form a durable seal capable of cyclic expansion and compression movement of +100%/-50%.

USES

- Insitu concrete and render
- Precast and tilt up panels
- Brickwork and block work
- Plasterboard face and paper lined recessed edges
- Fibre cement sheet
- Production areas that need some acid/solvent resistance
- Pedestrian walkways
- Airport runways
- Aluminium windows*
- Granite, sandstone, and marble
- GRC, fibreglass and mostly specialty panel systems*
- Adhesive for floor trims, skirting boards and other common building material such as concrete, wood, aluminium*, brickwork etc.



*Must conduct P.A.T.S. (Pre-tested Adhesion to Substrate)

APPROVALS/CERTIFICATIONS

- ASTM C920
- ASTM C1248
- ISO 11600
- F-EXT-INT-CC 25HM : EN 15651-1
- PW-EXT-INT-CC 25HM : EN 15651-4
- DIN 52 452 – Resistance in aviation fuel, some acids, and solvents (internal)
- BS 5212 - Resistance to fuel immersion of sealant
- AS/NZS 4020:2018 Potable water
- ISEGA - Direct contact to foodstuffs
- Singapore Green Building Council (SGBC)
- EN 14187 Part 5 - Hydrolysis resistance test

PRODUCT CHARACTERISTICS

Appearance	White, Grey, or Black
Viscosity	Non-sag, smooth thixotropic past
Cure method	Moisture curing
Coverage	Refer to table
Application temperature	5 to 40°C
VOC	2.4g/L

TYPICAL PERFORMANCE DATA	
Temperature resistance	-30 to 80°C
Skin time	90 mins
Cure rate	2.5-3mm/24 hours
Full cure	7 days on porous substrates. Allow > 14 days in joints over 20mm wide in standard conditions
Specific gravity	1.30 g/ml
Shore A hardness	30-35 (DIN 53505) 35-45 (ASTM C661)
Tensile strength	> 1.6 N/mm ²
Elongation at break	> 800%
Total joint movement	+100%/-50%
Maximum joint width	Up to 50mm

USING SEAL 'N' FLEX® PREMIUM P795

Please read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting www.bostik.com.au.

TOOLS

Bostik Seal 'N' Flex® Premium P795 should be dispensed from either the cartridge or sausage by means of a caulking gun.

PREPARATION

1. Application temperature + 5°C to + 40°C (applies to environment and substrates)
2. Clean and dry all surfaces by removing foreign matter and contaminants such as laitance oil, dust, grease, frost, water, dirt, old sealants, curing agents and any protective coating.
3. Dust and loose particles should be vacuum cleaned.

PRIMING

Bostik Seal 'N' Flex® Premium P795 adheres without the use of a primer to standard concrete or mortar, and bare aluminium*. Always conduct P.A.T.S. (Pre-tested Adhesion to Substrate) prior to application.

**Aluminium coated panel has a protective coating (wax or plastic) on the surface of composite or cladding panels; therefore, check the compatibility of sealants. Doing this check beforehand is advisable.*

Bostik Australia
51-71 High St, Thomastown
VIC 3041
P: 1800 267 845
www.bostik.com.au

IMPORTANT: For optimum adhesion and in areas of critical, high-performance applications such as high stress joints, extreme weather exposure, or surfaces that are too porous, the use of substrate primer is required.

Porous Substrates:

1. Absorbent or porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate.
2. For maximum performance on porous surfaces and in all periodically immersed and submerged applications, use **Bostik N49 Primer** (refer to the **Bostik N49 Primer** Technical Data Sheet).
3. Porous substrates not subject to immersion or ponded water e.g., vertical expansion joints in concrete or masonry structures does not require priming if clean, dry, and uncontaminated.

Non-Porous Substrates:

1. Non-absorbent substrates will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate.
2. **Bostik N40 Primer** is recommended for non-porous plastic and metal substrates e.g., u-PVC outlets and pipe work, brass, copper fittings, stainless steel trays and flashings (refer to the **Bostik N40 Primer** Technical Data Sheet).
3. Prime all plastics and metallic non-porous substrates with **Bostik N40 Primer** using the two-cloth method described in the **Bostik N40 Primer** Technical Data Sheet.

APPLICATION

Cartridge Application:

1. Pierce the membrane at the top of the cartridge and screw on the nozzle.
2. Cut the nozzle to give the required angle and bead size.
3. Place the cartridge in a caulking gun and squeeze the trigger.

Sausage Application:

1. Clip the end of the sausage and place in a barrel gun.
2. Screw the end cap and nozzle onto the barrel gun.
3. Use the trigger to extrude the sealant. To stop; depress the catch plate.

Apply Bostik Seal 'N' Flex® Premium P795 in a continuous operation using enough pressure to properly fill the joint. Tool off the surface of the sealant with an appropriately sized spatula or trowel. Apply sufficient pressure to leave a

BOSTIK HOTLINE

1800 BOSTIK (267 845)



smooth, consistent surface and ensure maximum contact with the interface of the joint.

Tool the sealant with adequate pressure to spread the sealant against the back up material and onto the joint sides. Excess sealant should be wiped from all surfaces while still uncured. Remove any masking tape prior to sealant curing.

Construction Adhesive Applications:

Bostik Seal 'N' Flex® Premium P795 does not need to be applied to both surfaces to be bonded, but both surfaces must be prepared in accordance with preparatory work. Apply in beads to the prepared substrate. Materials being adhered can be bonded immediately or left open for up to 15 minutes after application prior to bonding. If no mechanical fixing is to be used in conjunction with adhesive, clamping is necessary until full cure is achieved. Use enough sealant to achieve adequate bond (dependent on surface texture). Excess sealant can be removed by dry cloth or solvent wipe before curing. If adhesive is to be exposed, smooth off with spatula or putty knife to flush finish.

Construction Sealant Applications:

Bostik Seal 'N' Flex® Premium P795 is especially suitable for vertical joint sealing or in flooring applications such as saw cuts jointing. More joint movement can be accommodated in a thin bead of sealant than in a thick bead. Ensure the correct ratio of joint width of sealant to depth. The use of a bond breaker prevents undesirable three-sided adhesion. Open cell polyurethane foam or closed cell polyethylene foam rod is the recommended back up material to control correct sealant geometry. Install back up material or joint filler, as specified.

JOINT SEALING

A joint with the correct dimensions can absorb movements between building materials. Always use a backing rod for correct sealant geometry and contact with the substrate.

- Prime after the installation of backing rod
- Ensure maximum adhesion to the bond face
- Minimum allowable joint depth is 5mm
- Maximum allowable joint width is 80mm
- Tool sealant to achieve concave shape



Bostik Australia
51-71 High St, Thomastown
VIC 3041
P: 1800 267 845
www.bostik.com.au

Width	Depth
Min. 5mm to 10mm	1:1 ratio <i>A 10mm width will require a 10mm depth</i>
> 10mm, up to 80mm	$\text{Depth} = \frac{\text{width (mm)}}{3} + 6$ <i>A 16mm joint width will require a 12mm depth</i> $\text{Depth} = \frac{16}{3} + 6 = 12\text{mm}$

COVERAGE

The estimated lineal metre yield per pack size is recommended in the following table. No allowance has been made for waste or irregular joint geometry.

Joint Size (DxW)	5 x 5 mm	10 x 10 mm	10 x 20 mm	25 x 50 mm
300ml cartridge	12	3	1.5	0.24
600ml sausage	24	6	3	0.48

PRE-TESTED ADHESION TO SUBSTRATE (P.A.T.S.)

Bostik offers a service to eliminate potential field problems by pre-testing Bostik sealants with building materials to which the sealant will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult Bostik Technical Department for further information.

IN-HOUSE P.A.T.S. PROCEDURE

A simple bonding test can be done on a flat test surface e.g., concrete, aluminium etc. A test piece like that shown is recommended.

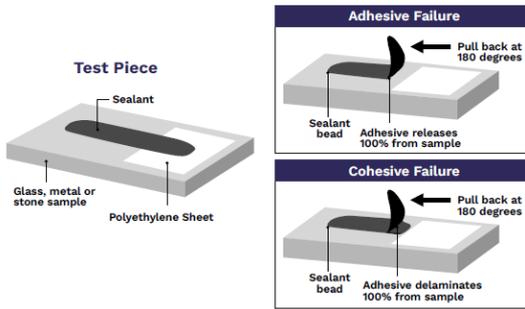
1. Clean the surface following the project-specific recommendations.
2. Place a piece of polyethylene sheet or bond breaker tape across the flat test surface.
3. Apply a bead of sealant and tool it to form a strip approximately 200mm long, 25mm wide and 3mm thick. At least 50mm of the sealant should be applied over the polyethylene sheet or bond breaker tape.

BOSTIK HOTLINE

1800 BOSTIK (267 845)



4. After cure of the sealant, pull the sealant perpendicular to the substrate until failure. Record the mode of failure of the test sealant.



CLEANING

The use of protective goggles, barrier creams and ointments, gloves and protective clothing is recommended. Cured material can be removed by mechanical means only. Clean off uncured material and equipment immediately after use using **Bostik Handy Wipe** towels to remove adhesive from skin.

PAINTABILITY

Bostik Seal 'N' Flex® Premium P795 can be painted after a minimum of 7 days. Coatings containing solvents such as enamels, oil based, or other coatings may cause the surface of the sealant to react creating a tacky surface. Surface coatings may discolour in direct contact with cured **Bostik Seal 'N' Flex® Premium P795**. Surface coatings may crack and craze as a result of cyclical movement of supporting sealant joint. A field test is recommended to ensure compatibility of any coating with **Bostik Seal 'N' Flex® Premium P795**.

LIMITATIONS

Not recommended for:

- Use in chlorinated water such as swimming pools, spas, etc.
- PE, PP, PC, PMMA, PTFE, soft plastics, neoprene, and bituminous substrates
- Constantly immersed salt water
- Use for glazing applications
- Application to cement based substrates within 28 days of initial pour or set
- Applied in temperatures below 5°C or above 40°C
- Exposure to water and/or alcohol before it has completely cured
- Applied to joints less than 5mm in width and depth
- Applied on joints larger than 50mm

Bostik Australia
51-71 High St, Thomastown
VIC 3041
P: 1800 267 845
www.bostik.com.au

Bostik Seal 'N' Flex® Premium 795 WHITE may yellow on the surface if exposed to strong natural or artificial UV light for prolonged periods of time.

As all substrates and conditions are different, it is strongly recommended that the applicator, or end user conducts their own tests and ensure the product meets their own end use requirements.

STORAGE & SHELF LIFE

Store in cool (between 5°C to 25°C) dry, well-ventilated area out of direct sunlight. Shelf life is **15 months** from production date in original unopened packaging and correct storage conditions.

Empty cartridges and foils may be disposed via local landfill. If spilt, absorb with clay, sand, or earth. Collect and seal in properly labeled metal container. Dispose of according to local authority regulations. Do not dispose of down drains or into local waterways.

HEALTH & SAFETY

Fire: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Spills and leaks: Clear area of all unprotected personnel. Slippery when spilt. Wear protective equipment. Absorb with sand or soil. Collect and seal in properly labeled drums. Dispose of contents/container in accordance with local, regional, national, and international regulations.

If poisoning occurs, contact Poisons Information Centre.

FIRST AID

Swallowed: Do not induce vomiting, give a glass of water, and seek medical advice.

Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If irritation occurs, seek medical advice

Inhaled: Remove from contaminated area. Apply artificial respiration if not breathing. Seek medical advice.

Eyes: Hold eyes open and flood with water for at least 15 minutes and see doctor.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.

BOSTIK HOTLINE

1800 BOSTIK (267 845)



PRODUCT CODES		
White	30619372	300ml
Grey	30619363	300ml
Black	30619361	300ml
White	30617376	600ml
Grey	30619364	600ml
Black	30619362	600ml

Bostik Australia
 51-71 High St, Thomastown
 VIC 3041
 P: 1800 267 845
www.bostik.com.au

BOSTIK HOTLINE

1800 BOSTIK (267 845)



This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers, and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. 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 use of out-of-date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Australian Consumer Law (ACL). Sale of the product by Bostik is subject to the Bostik Australia Proprietary Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.com.au