Seal 'N' Flex® Façade H725

LOW MODULUS, HYBRID FORMULA CONSTRUCTION SEALANT

TECHNICAL SHEET 05/02/2024

SMART ADVANTAGES

- UV, moisture, and weather resistance
- Bubble free curing
- Low modulus
- ±50% joint movement on glass, concrete, and aluminium
- Free of isocyanates, silicones & solvents
- Easy tooling
- Permanently elastic
- Applicable on damp or moist substrates
- Unaffected by tooling method
- Hazard label free
- Paintable*

DESCRIPTION

Bostik Seal 'N' Flex® Facade H725 is a high quality professional low modulus sealant based on hybrid technology (FLEX-IQ). It cures under the influence of humidity to form a durable elastic rubber. **Bostik Seal 'N' Flex® Facade H725** is resistant to weathering conditions such as rain, UV, snow, sleet, ozone, atmospheric contamination, and pollution.

USES

- Insitu concrete floors and walls
- Precast and tilt up panels
- Metal cladding*
- Aluminium composite panels*
- Glazing application (not for high rise building) *
- Brickwork and blockwork
- Rendered masonry
- Plasterboard
- Fibre cement sheet Adhesive for wide range of building and construction applications

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

APPROVALS/CERTIFICATIONS

- ASTM C920
- ASTM C1248

- F-EXT-INT-CC 25LM: EN 15651-1
- PW-EXT-INT-CC 25LM: EN 15651-4
- EMICODE EC1 PLUS
- SNJF F25E
- ISEGA
- BREEAM
- Singapore Green Building Council (SGBC)
- BRANZ Appraisal: natural weathering test for up to 11 years and accelerated weatherometer (UV) aging test for up to 7000 hours.

PRODUCT CHARACTERISTICS	
Appearance	White, Grey, or Black
Viscosity	Non-sag, smooth thixotropic paste
Cure method	Moisture curing
Coverage	Refer to table below
Application temperature	5 to 40°C
VOC	1.8g/L

TYPICAL PERFORMANCE DATA	
Temperature resistance	-30 to 70°C
Skin time	90 mins

Cure rate	2-3mm/24 hours on porous substrates
Full cure	7 days on porous substrates. Allow 14 days in joints over 20mm wide.
Specific gravity	1.34 g/ml
Shore A hardness	25
Tensile strength	1.3 N/mm²
Elongation at break	> 600%
Total joint movement	± 50%
Maximum joint width	Up to 50mm

USING SEAL 'N' FLEX® FAÇADE H725

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

TOOLS

Bostik Seal 'N' Flex® Facade H725 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® Façade H725 adheres without the use of a primer to standard concrete or mortar, bare Aluminium* and glass. 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.

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 or Prep M 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 or Prep M Primer** Technical Data Sheet).
3. Prime all plastics and metallic non-porous substrates with **Bostik N40 or Prep M Primer** using the two-cloth method described in the **Bostik N40 or Prep M 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® Facade H725** 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 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

JOINT SEALING

A joint with the correct dimensions can absorb movements between building materials.

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

BOSTIK HOTLINE

1800 BOSTIK (267 845)

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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 50mm
- Tool sealant to achieve concave shape

Width	Depth
Min. 5mm to 10mm	**1:1 ratio** *A 10mm width will require a 10mm depth*
> 10mm, up to 50mm	**Depth =** $\frac{width\ (mm)}{3}$ **+ 6** *A 16mm joint width will require a 12mm depth* **Depth =** $\frac{16}{3}$ **+ 6 = 12mm**

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

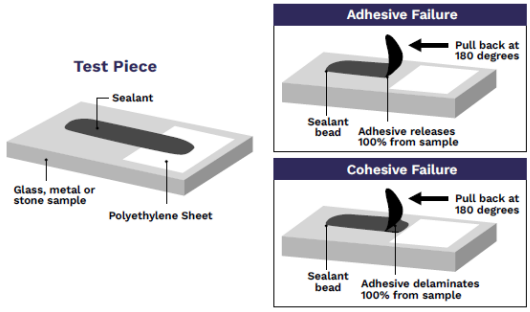
A simple bonding test can be done on a flat test surface e.g., concrete, aluminium etc. A test piece like that shown is recommended.

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.

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® Facade H725 is paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommend testing compatibility with paint prior to application.

If **Bostik Seal 'N' Flex® Facade H725** is being painted over, it is recommended to slightly sand the sealant and the junction surfaces prior to use. For best results, we recommend painting within a few days of application.

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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
- Application to cement based substrates within 28 days of initial pour or set
- Applied in temperatures below 5°C or above 40°C
- Applied to joints less than 5mm in width and depth
- Applied on joints larger than 50mm Applications less than 5mm in width or less than 6mm in depth

Bostik Seal 'N' Flex® Facade H725 WHITE may yellow or discolour if exposed to 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

Refer to the SDS, available at www.bostik.com.au

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

PACKAGING		
White	30626223	300ml
Grey	30626226	300ml
Black	30626227	300ml
White	30619354	600ml
Grey	30619352	600ml
Black	30619350	600ml

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