TECHNICAL DATA SHEET

Seal N Flex® FC PU Sealant

PRODUCT DESCRIPTION

Bostik Seal N Flex® is a high-performance, one-component, fast-cure polyurethane sealant designed for demanding construction and civil applications. When cured, it forms a tough, flexible, and durable elastomer capable of cyclic expansion and compression of up to ±25% joint movement (50% total).

This fast cure polyurethane sealant is engineered for both bonding and sealing applications. It is virtually unaffected by normal weathering conditions including UV radiation, rain, ozone, atmospheric contamination, and pollutants, retaining its performance over the long term. Seal N Flex® FC is made in Australia, meeting local standards for potable water and building applications.

FEATURES & BENEFITS

- One-component, moisture-curing system – no mixing required
- Fast tack-free time and accelerated cure – up to 30% faster than traditional PU sealants
- ±25% joint movement capacity (Class 25)
- High bond strength with excellent adhesion to most building substrates
- Non-slumping, suitable for vertical and horizontal applications
- Resistant to fungal attack, hydrolysis, aging, and a wide range of chemicals
- Potable water certified (AS/NZS 4020:2018)
- Paintable after 24 hours with water-based and some epoxy coatings*
- Excellent acoustic properties
- Made in Australia

APPLICATIONS

Seal N Flex® FC is recommended for:

- Construction and expansion joints in concrete and blockwork
- Trafficable areas: floors, stairs, pavements, aprons, runways, and roads
- Specialty panel systems including GRC, CFC, and fibreglass
- Vertical precast joints and façade sealing
- Perimeter sealing around doors and window frames
- Bonding of cladding and façade panels to substrates (P.A.T.S. recommended)
- Potable water tanks (AS/NZS 4020:2018 compliant)
- Service stations, hangars, aprons, and bunded chemical-resistant areas
- Public amenities, correctional facilities, and pick-resistant environments

SPECIFICATION

Product Code	Description
119849	Seal N Flex® FC PU Sealant – Grey – 600 ml sausage

TECHNICAL SPECIFICATIONS

TYPICAL PERFORMANCE DATA

Property	Result
Temperature Resistance	-40 °C to +70 °C
Skin Time	~45 minutes
Cure Rate	2.5–3 mm / 24 hours
Full Cure	7 days
Specific Gravity	1.25 – 1.35 g/ml
Shore A Hardness	45
Tensile Strength	2.5 – 3.0 N/mm²
Elongation at Break	> 450%
Total Joint Movement	± 50%
Maximum Joint Width	Up to 50 mm on horizontal substrates; Up to 20 mm on vertical substrates

COVERAGE (600 ML SAUSAGE)

Joint Size (Width × Depth)	Yield
5 mm × 6 mm	20 linear metres
20 mm × 10 mm	3 linear metres

Coverage estimates only. Allow for site wastage and joint irregularities.

SHELF LIFE & STORAGE

- Shelf life: 15 months from production date (12 months typical)
- Store unopened in original packaging at +5 °C to +30 °C in dry, ventilated environment
- Protect from direct sunlight and moisture

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TECHNICAL SPECIFICATIONS

PRODUCT CHARACTERISTICS

Property	Result
Appearance	3 colours available
Viscosity	Non-sag, smooth thixotropic paste
Cure Method	Moisture curing
Coverage	Refer to table
Application Temperature	#ERROR!
VOC Content	~78 g/L

STANDARDS COMPLIANCE

- ASTM C920, Type S, Grade NS, Class 25
- US Federal Specifications: SS-S-200D and SS-S-200E
- AS/NZS 4020:2018 (Potable water)
- Internal Bostik Fuel Immersion Test – PASS

SURFACE PREPARATION

- All substrates must be clean, dry, and free from dust, laitance, grease, curing compounds, and old sealants.
- Porous substrates: grind, saw cut, or blast clean for best adhesion.
- Non-porous/plastic substrates: clean with appropriate solvent, then wipe with a dry cloth.
- Always conduct P.A.T.S. (Pre-tested Adhesion to Substrate) prior to application.

PRIMING:

- Porous substrates subject to immersion or high-stress joints: use Bostik N49 Primer.
- Non-porous plastics and metals: use Bostik N40 Primer.
- Aluminium panels: check compatibility with coatings prior to application.

APPLICATION INSTRUCTIONS

- Apply between +5 °C and +35 °C.
- Use cartridge or sausage caulking guns for application.
- Ensure backer rod or bond breaker is in place to prevent three-sided adhesion.
- Apply continuous bead, then tool with a spatula to achieve smooth concave finish.
- Construction adhesive use: apply beads, press surfaces together within 15 minutes, clamp if required.

PAINTING

- Paintable after minimum 24 hours with water-based coatings and epoxy flooring systems.
- Solvent-based enamels and high oil-based coatings may cause tackiness.
- Compatibility testing is strongly recommended.

LIMITATIONS

- Not recommended for:
  - Highly chlorinated environments (e.g., swimming pools, spas)
  - Glazing applications exposed to direct UV radiation
  - Substrates like marble, limestone, or granite (risk of staining/discolouration without pre-testing)
  - Bitumen substrates, Teflon, polyethylene, or polypropylene
  - Joints <5 mm width or <6 mm depth
- White grade may yellow on prolonged UV exposure.

SAFETY INFORMATION

- **GHS Classification:** Skin Irritation (Cat. 2), Eye Irritation (Cat. 2), Respiratory Sensitisation (Cat. 1), Skin Sensitisation (Cat. 1), Carcinogenicity (Cat. 2)
- **Signal Word:** DANGER
- **Hazard Statements:**
  - H315: Causes skin irritation.
  - H317: May cause allergic skin reaction.
  - H319: Causes serious eye irritation.
  - H334: May cause asthma symptoms or breathing difficulties if inhaled.
  - H351: Suspected of causing cancer.
- **Precautions:**
  - Avoid breathing vapours; ensure adequate ventilation.
  - Wear gloves, protective clothing, and eye protection.
  - Store locked up; keep out of reach of children.
  - Dispose of contents/containers via approved waste channels.

FIRST AID MEASURES

- **Inhalation**: Move to fresh air. If breathing difficulty occurs, seek medical attention immediately.
- **Skin**: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation occurs.
- **Eyes**: Rinse cautiously with water for at least 15 minutes. Seek immediate medical advice.
- **Ingestion**: Do not induce vomiting. Rinse mouth with water and seek immediate medical help.

SPILLS & DISPOSAL

- Absorb with sand, soil, or inert material.
- Collect in labelled containers for disposal in accordance with local regulations.
- Do not discharge into drains or waterways.

FIRE FIGHTING MEASURES

- Suitable media: water fog, alcohol-resistant foam, dry chemical, CO_2.
- Hazardous combustion products: carbon oxides, nitrogen oxides, hydrogen cyanide, hydrochloric acid, isocyanates.
- Firefighters: use SCBA and protective gear.

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