Tampala Pty Ltd trading as
BIY Construction Supplies
23-25 Clyde Street
Wingfield SA 5013

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Email sales@biy.com.au

ABN 47 008 016 082

BIYSEAL PRECOMPRESSED IMPREGNATED FOAM

DESCRIPTION:

Biyseal is a black, pre-compressed, self-expanding foam joint sealant, engineered to perform as a highly flexible, weather-tight, primary seal in vertical exterior applications. Biyseal can also provide the ideal foundation for a large variety of wet sealants, such as silicone, polyurethane, polysulfide, and acrylic if desired.
Unlike conventional wet sealant and backer rod methods, Biyseal Pre-compressed Foam is not susceptible to breakdowns caused by excessive or rapid joint movements, thus protecting structures against rain, wind, dust and sound.

Biyseal Pre-compressed Impregnated Foam consists of 3 elements: a foundation of super-resilient polyurethane foam, an impregnation of flame retardant, hydrophobic UV stabilized acrylic emulsion, and a pressure-sensitive adhesive backing. Biyseal Pre-compressed Impregnated Foam is pre-compressed on a roll with adhesive backing on one side for easy application. Biyseal is self-extinguishing and has a flame spread of O with a smoke development rating of 5 per ASTM E 84 and is chemically compatible with all types of commercial construction.

FEATURES & BENEFITS:

- Driving rain tight to 12.5 psf
- Never under tension or cohesion strain
- Minimum surface prep and no priming required
- Water based acrylic with no fillers or VOC's
- Seals gaps or seams as small as 3mm
- Breathable (vapour permeable)
- Paintable with water based paints
- Can be installed under many weather and temperature conditions
- Material will self-expand in one direction to fill the joint depending on the storage and ambient temperature. Material will continue to expand and equalize in the joint This can take an additional day or two depending on

SIZES:

15mm x 15mm up to 100mm x 50mm
Other sizes available upon request.

USES:

- Primary expansion, control, isolation & retrofit joints
- Secondary construction joints—behind wet applied sealants if desired
- Exterior Panel Systems—Masonry, Stone, EIFS, Curtain Walls
- Pre-cast concrete walls, Tilt-up walls
- Window and flashing applications
- Interior vapor, dust, acoustical & air control

INSTALLATION:

- After measuring the joint, choose the appropriate tape size based upon the joint
- Cut off the over-compressed parts of the Biyseal at the beginning and end of the roll (first 50mm)
- Add at approximately 12mm to the measured length and cut the Biyseal
- For vertical joints start to work from the bottom and end the Biyseal in a built joint to terminate the Biyseal tape to tape
- For installation you need a tape measure, spatula/ putty knife, scissors/knife and possibly wood shims
- Material will self-expand in one direction to fill the joint depending on the storage and ambient temperature. Material will continue to expand and equalize in the joint. This can take an additional day or two depending on temperature.

Approx expansion times:

- 3°C	5+ hours
10°C	1 hour
20°C	10 minutes
30~C	5 minutes
40°C	1 minute

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TYPICAL DATA:

PROPERTY	TEST METHOD	VALUE
Colour		Black
Thermal resistance	ASTM C 518	3.3hr-3.6hr-°F-ft²/Btu
Tensile Strength		21 psi min.
Temperature Stability Range	Short Term	-40°C to 120°C
	Long Term	-40°C to 90°C
Elongation		120% ± 20%
Compression Set		Max 5%
Staining & Bleeding		No bleeding
Shelf Life		2+Years
Water Resistance	ASTM E 331	12.5 psf³
	ASTM E 547	12.5 psf³
Fire Testing	ASTM E 84¹	Flame Spread: O
		Smoke Developed: 5
Compatibility with conventional construction materials		No signs of corrosion were observed on zinc, steel, galvanized steel, aluminium and copper: no adverse effects with concrete, aerated concrete, brick, some natural stone, PVC, Plexiglass and wood.
Ideal Storage Temperature		34°C
Performance Guarantee		5 year warranty1 on performance
Comprenhensive Performance Test	DIN 18542	600 Pascal

1. Due to the conditions set by Biyseal certain restrictions will apply.