

Technical Data Sheet

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Flexiseal

Polyurethane Joint Sealant

Description

Selleys Flexiseal is a non-slumping, low modulus polyurethane joint sealant with high movement capability. It has excellent adhesive properties to most common building substrates, weatherproof and suitable for indoor and outdoor applications. It is available as a 600mL sausage in a range of colours.

Uses

- Ideal for elastic joint sealing of expansion and construction joints between common building materials in vertical and horizontal surfaces such as;
- Expansion Joints in precast elements
- Perimeter seals around windows and doors
- External wall and cladding joints
- Weatherproofing joints between brickwork, masonry, wood concrete or metal frames.
- Joints in walls, balconies, around window or door frames.
- Joints in bridge and balcony parapets
- Retaining walls
- Roofing
- Acoustic rated walls

Features/ Advantages

- High flexibility with +/-25% joint movement capability
- Low modulus of elasticity
- Excellent resistance to aging and weathering
- No shrinkage during curing
- Excellent adhesion on common building materials such as concrete, masonry, brick, ceramic tile, metals, soft wood, hardwood and some plastics
- Certified according to ISO11600/F/25LM, DIN18540/F and ASTM C920.
- Will not degrade acoustic walls that meet the BCA requirements

Instructions for Use/ Application Instructions

- The following should only be used as a guide and the installer should apply all Australian Standards, BCA/NZBC requirements, and best practices when installing.
- Surface must be clean, dry and free from oil, grease, release agents, dust and loose material.
- Install backing rod to correct depth apply masking tape as required.
- Cut the end of the sausage and insert into a Selleys sausage gun.
- Extrude sealant into the joint such that it is in full contact with the sides of the joint. Avoid overlapping of sealant to eliminate entrapment of air.
- Smooth sealant with spatula forcing the sealant into the joint for better contact with the sides.
- Painting with water based

Priming

Selleys Flexiseal generally has good adhesion properties without priming to common building materials indicated. For some plastics and pre painted surfaces; priming may be required and a Pre-test to ensure suitable adhesion is recommended.

Joint & sealant dimensions

The optimum width to depth ratio for joint sealing is 2:1.

Minimum joint width and depth is 6mm.

For joint widths up to 12mm, use a width to depth ratio of 1:1

For joint widths greater than 12mm, use a width to depth ratio of 2:1

Notes:

- Wider joints can accommodate more total movement than narrow joints.
- Always install suitable diameter backing-rod (polyethylene or polyurethane foam rod) in joints to control sealant depth and ensure free movement of sealant in joints.
- Sealant must adhere to sides of the joints only and NOT to the back, so that it is free to stretch.

Estimation of lineal coverage per Flexiseal sausage

Joint Width (mm)	Joint Depth (mm)	Litre Per Lineal Meter	Meters of Coverage
6	6	0.036	16.7
8	8	0.064	9.4
10	10	0.100	6.0
12	12	0.140	4.2
14	7	0.098	6.3
16	8	0.128	4.7
18	9	0.162	3.7
20	10	0.200	3.0
22	11	0.242	2.5
24	12	0.288	2.1
26	13	0.338	1.8
28	14	0.392	1.5
30	15	0.450	1.3
40	20	0.800	0.8

Technical Data/ Properties

Contact Selleys before using this data for the setting of specifications.

Property	Typical Result
Colour	Grey, Black, White
Density	1.28
Technology	Polyurethane
Application Temperature	5 – 35°C
Shelf Life	12 months
Shore A Hardness (ASTM C661)	25 – 30
Joint Movement Capability (ASTM C719)	+/-25%
Skin Time at 23°C and 50% R.H.	150 minutes
Tack Free Time at 23°C and 54% R.H. (ASTM C679)	200 minutes
Curing at 23°C and 50% R.H.	2 – 3 mm/ 24 hours
Elongation at Break (ASTM D412)	>800%
Elastic Modulus @ 100% (DIN 52455)	0.25 – 0.40 N/mm ²
Tensile Strength (ASTM D412)	>1.2 MPa
Elastic Recovery (DIN EN 27389)	>80%
Service Temperature	- 40°C / +90°C with brief points at 120°C
VOC	50 g/L

Important Notes/ Limitations

- Do not apply if air or substrate surface temperature is below 5°C.
- Requires atmospheric moisture to cure.
- Not recommended for continuous submersion or below water line use.
- Do not apply in the presence of curing silicone sealants as cure may be affected.
- Avoid contact with alcohol and other solvent cleaners during cure as cure will be affected.
- Application to substrates with high moisture can cause bubbling within the sealant.
- Do not use for structural or general glazing.
- Avoid air entrapment while applying as a sealant
- May affect drying of alkyd /oil-based paints
- White sealant may yellow slightly with age and exposure to the sun.
- Do not store product above 30°C.

Storage

Store unopened sausages below 30°C in a cool dry place away from direct sunlight. Unopened sausages can be stored for 12 months from the date of manufacture. Opened sausages may skin and form a lump near the opening. Discard any lumps or skin and remaining product can be used.

Safety

Classified as HAZARDOUS - contains Isocyanates

Wear gloves and safety glasses when using.

Not classified as Dangerous Goods.

Refer to Safety Data Sheet for more detailed information.

Clean up

Spills and tools can be cleaned up with Mineral Turps before product cures. Cured product can only be removed mechanically.

Disclaimer

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