

Proseries Flexiseal

Description

Selleys Proseries 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.

Product Information

| Packaging | Size | Colour |
|--------------|-------|-----------------------|
| Foil Sausage | 600ml | White, Grey and Black |
| Cartridge | 310ml | White, Grey and Black |

Uses

Proseries Flexiseal is 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

- 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 and DIN18540/F
- Will not degrade acoustic walls that meet the BCA requirements

Technical Details

| Property | Typical Result |
|--|---|
| Technology | Polyurethane |
| Colour | White, Grey and Black |
| Density | 1.33 |
| Application Temperature | 5 – 35°C |
| Tack-Free Time | approx. 120 minutes |
| Cure Rate | approx. 2.0 mm/24h |
| Tensile Strength (DIN 53504) | approx. 1.5 N/mm ² |
| Shore A Hardness (DIN 53505) | approx. 30 |
| Elongation at Break (DIN 53504) | approx. 800% |
| Modulus at 100% Elongation (DIN 52455) | approx. 0.4N/mm ² |
| Movement Capability (EN 15651/1; ISO 11600) | +/- 25% |
| Service Temperature | - 40°C / +90°C with brief points at 120°C |
| Indicative data only, not intended for preparation of specifications | |

Surface Preparation

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.

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Directions for Use

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.
- To ensure performance, install joint backing rod (polyethylene or polyurethane foam rod) in the joint to control depth and 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 paints is possible after curing. If solvent based paints are used; prime first with water based primer.

Tips

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

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.

To maximise durability in outdoor applications paint with a suitable exterior paint.

Coverage

Estimation of lineal coverage per Flexiseal FC 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 |
| 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 |
| 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 |

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Clean Up

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

Warnings, First Aid and Shipping Information

This information can be located on the product SDS found through our website – www.selleys.com

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.

Standards

Certified according to ISO11600/F/25LM

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 sealant
- May affect drying of alkyd /oil based paints
- White sealant may yellow slightly with age and exposure to the sun.
- Will not adhere to PE, PP or PTFE – test other plastics and rubber first.