

Proseries Flexiseal FC

Description

Proseries Flexiseal FC is a fast curing polyurethane construction adhesive with high flexibility and excellent adhesion. It is waterproof, suitable for indoor and outdoor applications^ and paintable after it has cured.

Product Information

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

Uses

Flexiseal FC is a multipurpose, high performance, elastic adhesive and sealant. It is ideal for bonding common building materials and can be used for sealing construction joints in vertical and horizontal applications. Its uses include:

- As an adhesive for indoor and outdoor bonding of window sills, thresholds, stair steps, skirting boards, base boards, crash protections boards, covering boards and prefabricated elements.
- Sealing gaps and adhering most façade and cladding panels to various building materials.
- Weatherproofing joints between brickwork, masonry, wood concrete or metal frames.
- Joints in walls, balconies, around window or door frames.

Features

- High flexibility with +/-25% joint movement
- 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/25HM
- Will not degrade acoustic walls that meet the BCA requirements

Technical Details

Property	Typical Result
Technology	Polyurethane
Colour	White, Grey and Black
Density	1.29
Application Temperature	5 – 35°C
Tack-Free Time	55 – 65 minutes
Cure Rate	≥ 2,5 mm/24h
Tensile Strength (DIN 53504)	>1.8N/mm2
Shore A Hardness (DIN 53505)	approx. 40 - 45
Elongation at Break (DIN 53504)	>550%
Modulus at 100% Elongation (DIN 52455)	0.8N/mm2
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 FC 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.

- Avoid contact with skin and eyes and breathing vapours. Surface must be clean, dry and free from oil, grease, release agents, dust and loose material.
- Generally, there is no need for priming common building materials indicated. Some surfaces may require the use of a primer. Pre-test on other surfaces.

AS AN ADHESIVE:

- Apply a bead or small blobs on surface. Assemble parts together and clamp firmly to hold until cured. Remove excess immediately.
- Initial bond achieved in 24 hours depending on temperature and humidity. Bond strength increases over a few days.

AS A SEALANT:

- Extrude sealant into the joint ensuring full contact with the sides of joint. Avoid entrapment of air.
- Smooth sealant with a spatula, forcing it into the joint.
- To ensure performance, install joint backing rod (polyethylene or polyurethane foam rod) in the joint to control depth.

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

Tips

For adhesive purposes apply Flexiseal FC in spots or beads on the prepared surfaces then firmly press the parts together. If necessary, use suitable fixing until the adhesive has cured.

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.

Clean Up

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

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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/25HM

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.

Warnings, First Aid and Shipping Information

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