

SELLEYS 650 FC ADHESIVE SEALANT

Silane Modified Polymer Adhesive and Sealant for vertical and floor joints

Description

Selleys 650FC is a premium fast cure multipurpose high modulus flexible adhesive and sealant based on advanced hybrid technology. Offering a very broad primerless adhesion property, $\pm 20\%$ joint movement capability, 650FC is able to withstand both easy and harsh application conditions indoor and outdoor. It is also a low VOC product, free from harmful chemicals like solvents and isocyanates. Once cured, it can be used for both sealing and bonding applications, like bonding and sealing of wall cladding panels, trafficable joint sealing and many more. It is available as a 300mL cartridge or a 600mL sausage in a range of colours.

Uses

650 FC is a multipurpose, high performance, elastic sealant and adhesive. It is ideal for bonding common building materials and sealing construction joints in vertical and horizontal applications including:

- 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
- Indoor and outdoor applications for pedestrian and traffic areas (parking decks, car parks)
- Movement and connection joints in floors

Features/Advantages

- High elasticity with $\pm 20\%$ joint movement capability
- Fast curing
- Good resistance to aging and weathering
- Can be painted once cured
- No shrinkage or bubble formation during curing
- Excellent adhesion on common building materials such as concrete, masonry, brick, ceramic tile, metals, soft wood, hardwood and some plastics
- Pick resistant

Instructions for Use/Application Instructions

For Sealing purposes:

The following should only be used as a guide and the installer should apply all local standards and 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 paints is possible after curing. If solvent-based paints are used; prime first with water-based primer.

Priming

Selleys *650 FC* generally has good adhesion properties without priming to common building materials indicated. In some instances, a primer 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.

For adhesive purposes ensure surfaces are clean, dry and free from oil, grease, release agents, dust and loose material. Apply 650 FC in lines or beads on the prepared surfaces then firmly press the parts together. If necessary, use suitable fixing until the adhesive has cured.

Estimation of lineal coverage per 650 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	6.0
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	1.61
Technology	Silane Modified Polymer
Application Temperature	5 – 35°C
Shelf Life	12 months
Shore A Hardness (DIN 53505)	40 +/- 5
Joint Movement Capability	+/-20%
Skin time at 23°C and 50% r.h	20 minutes
Curing at 23°C and 50% r.h.	≥ 2.5 mm/24h
Elongation at Break (ASTM D412)	>500%
Elastic Modulus @ 100% (ISO 8339)	0.7 MPa
Tensile Strength (ASTM D412)	2 MPa
Bond Strength on Timber (7 days cure)	>1.4 MPa
Service Temperature	- 40°C / +70°C with brief points at 100°C

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 or polyurethane sealants as cure may be affected.
- Avoid contact with solvent cleaners during cure as cure will be affected.
- Do not use for structural 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.
- Do not store product above 35°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

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.

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