

EVERFLEX SILICONE 450 PREMIUM BUILDERS



Colour	Product Code	Pack Size	Box Qty
White	450WE	C3	25
Translucent	450TR	C3	25
Brown	450BN	C3	25
Black	450BK	C3	25
	FP450BK6	600ml	12
Grey	450GY	C3	25
Buff	450BF	C3	25
Oak	450OAK	C3	25

Product Description

EVERFLEX SILICONE 450 PREMIUM BUILDERS SILICONE IS a low modulus, neutral cure RTV silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming. Conforms to ISO11600 F and G 25 LM and SNJF 25E

Benefits

- Excellent adhesion - adheres to most common surfaces including glass, metals, plastics and wood
- Low dirt pick up - important in PVCu work
- Excellent flexibility - +/- 25%.
- High resistance to plasticiser migration - may be used over water based and solvent based paints.
- Excellent external weathering properties.
- Suitable for use on polycarbonate
- Certified under the harmonized European standard EN15651 for façade, glazing, cold climate and sanitary applications in compliance with the Construction Product Regulation
- Passed CFR 21. 177.2600(e) food contact test (except white)

Areas For Use

- Perimeter pointing internally and externally around PVCu /wood and all other window frames.
- Sealing and as an adhesive onto PVCu, plastic trims and components.
- Bedding insulated glass units in accordance with relevant clauses of BS8000 Part 7.
- Suitable as an expansion joint sealant.
- Weather sealing and joint sealing to pre-formed panels.
- Sealing soft metals such as lead, copper and zinc.
- General glazing sealing and draughtproofing, including repair work over existing sealant.
- Glass to glass and glass to aluminium sealing.
- Parapet and roof weather sealing applications.

Limitations

- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Do not use in the manufacture of Aquariums. Use AQUA MATE
- Do not use on substrates that bleed oil, solvents or plasticisers.
- Non overpaintable. Use WEATHER MATE.
- Use as a mirror adhesive; Not recommended- Use MIRROR MATE.

Surface Preparation

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. Improve adhesion by wiping surface with EVERFLEX PVC SOLVENT CLEANER (pvc) EVERFLEX GLASS CLEANER (glass) or white spirits (painted surfaces). Priming is generally not required, although we always advise testing small areas prior to use. If use of primer is desired for non-porous surface use Silicone Primer NP2 or for porous Silicone Primer P1.

Joint design should be as follows:

Minimum width: 6mm. Movement capacity will be impaired if the depth of the joint is greater than the width. For maximum movement accommodation, it is recommended that:

1. The joint depth should be no less than 5mm
2. Joint depth should be 6mm for joints up to 10mm wide
3. Joints above 10mm in width should be half the width in depth e.g. 20mm wide and 10mm deep.

For deep joints, reduce depth by using EVERFLEX FIX AND FILL FOAM or a suitable joint backer rod. All joints should be designed so that the seal is placed in a position which does not retain water or form a water trap. Triangular fillets should be no less than 12mm across the face and should be finished with a flat or convex face.

Application

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application.

Specific Data

Movement accommodation	+ or -25% ISO11600 / SNJF
Skinning time:	5 - 25 mins
Cure time	1-2mm per 24 hours
Hardness Shore A	20
Shrinkage	<5% ISO10563
Service temperature resistance	-50°C to + 150°C
Application temperature resistance	+5°C to + 60°C
Specific gravity	1.02 g/cm ³ (1.35 g/cm ³ white)
Cleaning	Uncured sealant white spirit, cured sealant EVERFLEX SILICONE EATER.
Minimum joint width	6mm
Maximum joint width	50mm
Joint ratio	Maximum depth, 50% of joint width
Coverage	10.5 linear meters as a 6mm diameter bead
Elongation at break	>300% ISO8339
Tensile Adhesion Modulus @ 100% Elongation	0.3MPa ISO 8339
Elastic Recovery	>80%

Health & Safety

Consult MSDS for full list of hazards

Storage

Store in original unopened containers between 15 and 30°C

Shelf Life

18 months from date of manufacture (12 months for white)

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