

EVERFLEX SILICONE 450 PREMIUM BUILDERS

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 fully to ISO11600 F and G 25LM, BS5889 Type A; DIN 18540 and DIN 18545 E .

BENEFITS

- Excellent adhesion - adheres to most common surfaces including glass, metals, plastics and wood
- Low dirt pick up - important in PVCu work
- Excellent flexibility - +/- 50%.
- High resistance to plasticiser migration - may be used over water based and solvent based paints.
- Excellent external weathering properties.
- Suitable for use on polycarbonate

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 SILICONE.
- 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.

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 5mm for joints up to 10mm wide
- 3/ Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

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.

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 -50%
Skinning time:	5 - 25 mins.
Cure time:	1-2mm per 24 hours
Hardness Shore A:	20 (DIN53505)
Shrinkage:	5%
Service temperature resistance:	-50°C to + 150°C
Application temperature resistance:	+5°C to + 60°C
Tensile Strength	1.5Mpa (ASTM D 412 (C))
Specific gravity:	1.03
Cleaning:	Uncured sealant white spirit, cured sealant EVERFLEX SILICONE EATER.
Minimum joint width:	5mm
Maximum joint width:	50mm
Joint ratio:	Maximum depth 50% of joint width
Coverage:	@ 10 linear metres9 x 9mm fillet joint
Elongation at break:	500-600% (ASTM D 412)
Tensile Modulus at 100% elongation	0.35Mpa (ASTM 412 D)
Tensile Adhesion modulus @ 100% elongation	0.3Mpa (ISO 8339 (glass substrate))
Tensile adhesion strength at break	0.5Mpa (ISO 8339 glass substrates)
Tensile elongation at break	250% (ISO 8339 glass substrates)
Peel adhesion strength	6 KN/m (ASTM C 794)
Elastic Recovery	>90% (DIN 52458)
Application Rate	250g/min (3.2mm orifice 6.3 bar press.)

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HEALTH AND SAFETY

EVERFLEX SILICONE 450 is not classified as hazardous to health as supplied under CHIP 97.
Slightly irritating to eyes, respiratory system and skin. Avoid unnecessary skin contact and inhalation of vapours. Remove with soap and water. If product enters eyes, rinse immediately with soap and water. Seek medical advice if irritation persists. Ensure good ventilation in use.

STORAGE

Store in original unopened containers between 15 and 30°C

SHELF LIFE

12 months from date of manufacture