

EVERFLEX SILICONE 600 PVC-U

DESCRIPTION

EVERFLEX SILICONE 600 PREMIUM PVC-U is a rapid (reactive) cure low modulus silicone sealant specifically designed to have exceptional adhesion to uPVC combined with an extra thick consistency for easy tooling. Conforms to the performance requirements of BS5889(A).

BENEFITS

- Rapid skinning properties - not found with most conventional neutral cure low mod silicones
- Extra thick formulation - exceptional slump resistance and easier tooling.
- Excellent adhesion - adheres to most common surfaces.
- Low dirt pick up - important in PVCu work
- Excellent flexibility - +/- 50%.
- Excellent low (-40oC) and high (+180oC) temperature resistance.
- Solvent free - low shrinkage during vulcanisation.
- High resistance to plasticizer migration - may be used over water based and solvent based paints.
- Excellent external weathering properties.
- Extended shelf life - up to 18 months from date of manufacture.

AREAS FOR USE

- Perimeter pointing internally and externally around PVCu.
- Sealing and as an adhesive onto PVCu, plastic trims and components.
- Weather sealing and joint sealing to pre-formed panels.
- General glazing sealing and draughtproofing, including repair work over existing sealant.
- Glass to glass and glass to aluminium sealing.
- Sealing around worktops, laminates and cold store applications.
- DIY applications (car, boat, caravan, house)

LIMITATIONS

- Do not use for expansion joints. Use PU 40, K1 POLYSULPHIDE or SILICONE 450.
- Do not use on pre-stressed polyacrylate or on polycarbonate - use SILICONE 450.
- Do not use on alkaline substrates. Use SILICONE 450
- Do not use on lead, copper, brass or zinc. Use LEAD MATE SILICONE.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- May stain marble, slate or certain sensitive natural stones.
- Overpainting is not possible, so on external applications where overpainting is required, use WEATHER MATE SEALANT.
- Do not use in the vicinity of, or in conjunction with the edge sealant of double glazed units. Use SILICONE 450.

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 wetted with linseed oil or white spirits. 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

FORM	Thixotropic paste (ready to use)
CURING SYSTEM	Acetoxy
COVERAGE	Approx 10 linear meters per cartridge
SERVICE TEMP:	-40°C to 180°C
TOOLING TIME	15-25mins after application
TACK FREE TIME	1 Hour.
CURE (10mm layer)	5 - 7 days (1-2mm per day)
SPECIFIC GRAVITY	1.02 approx
SLUMP (U20 Profile)	Nil.
DURABILITY:	Up to 25 years when used as recommended.
SHRINKAGE (during cure)	3%
EXTRUSION RATE (3mm noz. 0.21n/mm ²)	2 -6 ml/10s
TENSILE STRENGTH	1.2N/mm ² (ISO 37, rod S1) 0.50N/mm ² (ISO 8339, cond. A)
ULTIMATE ELONGATION (%)	500 (ISO 8339, Cond. A)
MODULUS (N/mm ²) At 100% elongation At 25% elongation At 100% elongation	0.18 (ISO 34 rod S2) 0.16 (ISO 8339, Cond. A) 0.24 (ISO 8339, Cond. A)
TEAR STRENGTH	3.8N/mm ²
MOVEMENT ACCOM.	+/- 50%

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HEALTH AND SAFETY

EVERFLEX SILICONE 600 uPVC is not considered as hazardous to health during normal use. The product does however release acetic acid during cure which is irritating to eyes. 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 20°C

SHELF LIFE

Use within 18 months.