

Technical

SMART SILICONE 700T is a cost effective low modulus, oxime cure RTV silicone sealant that adheres to a wide range of both porous and non porous surfaces without the need for priming. Conforms to BS5889 Type A, except clause 9. SILICONE 700T is formulated as a high viscosity grade to give excellent tooling properties

- Excellent adhesion -adheres to most common surfaces including glass, metals, plastics and wood
- Low dirt pick up -important in PVCu work
- Excellent flexibility +/-50%.
- 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.
- 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.
- Not suitable for bedding I. G Units – Use Silicone 450

SURFACE PREPARATIONS

The surfaces must be clean, dry and free from dust, grease and other contaminants. As quality of plastics can vary, always carry out adhesion tests prior to large scale use.

Improve adhesion by wiping surface with PVC solvent cleaner, glass cleaner 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 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.

Technical Detail

SPECIFIC DATA

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| Movement accommodation: | + or - 50% |
| Skimming time: | 5-20 MINS. |
| Cure time: | 2 mm per 24 hours |
| Hardness Shore A: | 20 approx |
| Shrinkage: | >10% |
| Service temperature resistance: | -50°C to +120°C |
| Application temperature resistance: | +5°C to +40°C |
| Tensile Strength: | 1.5MPa |
| Specific gravity: | 1.0 |
| Cleaning: | Uncured sealant, white spirit, cured sealant, etc |
| Minimum Joint width: | 5mm |
| Viscosity (bfld, S70,10rpm) | 150,000-300,000 cps |
| Joint ratio: | Maximum depth:50% of joint width |
| Coverage: | @10 linear metres: 9x9mm fillet joint |
| Elongation at break: | 500-600% |

HEALTH AND SAFETY

2-Butanone oxime (MEKO) is released on cure

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| Irritating to eyes. |
| Limited evidence of a carcinogenic effect. |
| May cause sensitisation by skin contact. |
| Keep out of the reach of children. |
| Wear suitable protective clothing and gloves and eye/face protection. |
| If swallowed, seek medical advice immediately and show this container or label. |
| Avoid contact with eyes. |
| In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

STORAGE & SHELF LIFE

Store in original unopened containers between 15 and 30°C - Use with 12 months from date of manufacture