



MASTER PROOFER S121

Acetoxy-cure One Part High Modulus Silicone Glazing Sealant

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1.0 Description

MASTER PROOFER S121 is a one part high modulus Acetoxy-cure Silicone Glazing Sealant which is manufactured to the specification of Master Proofer Company Ltd., it offers weatherability, elasticity and long-reliability for glazing and sealing.

2.0 Technical Data

Base Polymer	Silicone Rubber
Storage Condition	Keep dry between 5 ° C&30 ° C
Shelf Life	12 months @ 25 ° C
Durometre Hardness(Shore 'A')	30 ASTM D 676
Application Temperature	-20 ° C to 50 ° C
Service Temperature	-40 ° C to 230 ° C
Tooling Time @23 ° C 50% RH	5-10 min.
Tack-Free Time at 25 ° C and 50%RH	10-20 min
Cure Time @23 ° C 50%RH (3.15mm Thickness)	24 hours
Average Life Expectancy	> 20 years
Resistance to Water	Excellent
Resistance to Chemicals	Excellent for dilute acids and Alkalis
Resistance to UV	Excellent
Flammability	Does not support combustion
Standards Compliance	B.S. 5889B ASTM -920-86 TT-S-001543A ,TT-S-00230C MIL-A-46106A, Amend. 2,type 1. FDA Reg.No 21 CFR-177.2600
Colour	Clear, White, Black, Silver Grey and Bronze
Dynamic Movement Capability	± 25%
Tensile Strength, psi	30 ASTM D 412
Elongation at Break	500% ASTM D 412
Mildew-resistance	Anti-Fungi additive be added into white colour polymer

3.0 Typical Application

Glass/glass joints, New and remedial glazing, Sealing of aquarium, Sealing of the fine joints, Pointing of window frames and light cladding, Ceramic tiling, sanitary fittings and built-in kitchens, Form-in-place gasket.

4.0 Preparation

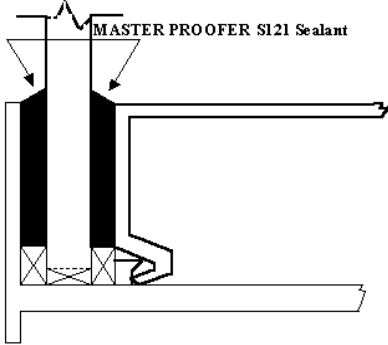
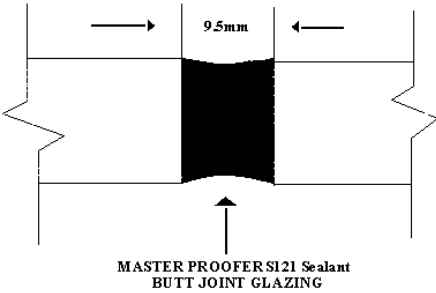
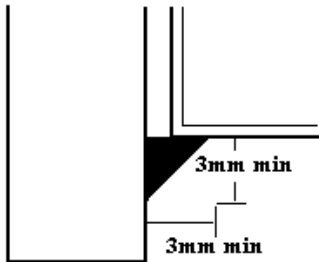
All surfaces should be sound, clean, dry, free of dust, oil, grease or other contamination. Loose matter should be removed by abrasion if necessary finally removing the dust by brush. Oil and grease are removed by the use of a cloth moistened with xylene or approved solvent. The cleaning cloth should be replaced regularly to avoid the redistribution of the contaminates over the surface. Care should be taken to ensure that all protective films and laquers etc is removed prior to the application of the sealant. Masking tape may be used to ensure a neat edge to the seal and protect substrates from which the removal of sealant is difficult. It should be applied before priming and be removed immediately after tooling, before the sealant starts to cure. A suitable back-up material (approximately 30% oversize) should be placed into the joint to the required depth-see **Joint design**. Closed cell polyethylene foam is normally used as it also acts as a bond-breaker, ensuring that the sealant bonds only to the sides of the joint.

5.0 Cleaning tools and equipment

Tools can be cleaned using xylene, white spirit or similar solvent.

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6.0 Joint Design

<p><u>Joint Design Diagram A</u></p> 	<p><u>Joint Design Diagram B</u></p> 
<p><u>Joint Design Diagram C</u></p> <p>When used as a triangular fillet there should be at least 3mm cover on each substrate and the fillet should be a regular triangle in cross section.</p> 	<p><u>Note.</u> When the Width: Depth ration is altered, the Movement Accommodation Factor is lowered and allowance must be made in the calculation of the joint wide. In common with other Silicone sealant, MASTER PROOFER S121 does not accept a paint finish.</p>

7.0 Application

Before starting application ensure that any primer or cleaner has dried fully. Using MPGun A912 or similar, extrude the sealant into the base of the joint and ensure that complete contact is made with the substrates. Care should be taken to avoid trapping air within the sealant. Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in case of vertical joints, lightly tool the sealant into the joint. This will improve adhesion, reduce air content and end enhance the appearance of the finished joint. If masking tape was used, it should be carefully removed, ensuring that it is not dragged across the face of the joint.

8.0 Coverage

The following formula gives the quantity of cartridges required:

$$\frac{\text{Joint width} \times \text{depth (mm}^2) \times \text{Length (M)} \times 1.04}{300} = \text{No. of cartridges}$$

9.0 Health and Safety

MASTER PROOFER S121 is irritating to eyes. If eyes are contaminated wash with plenty of clean water and seek medical advice. For further information, consult relevant Material Safety Data Sheet.

10.0 Technical Service

The Marketing and Technical offices of Master Proofer Company Ltd are readily available for advice on any of the Company's Products.

11.0 Packaging

MASTER PROOFER S121 Silicone Glazing Sealant is available in 300g disposable cartridge.