



## MASTER PROOFER GP1

### General Purpose Acetoxy Cure Silicone Sealant

### 高質酸性硅酮密封膠

#### 1.0 Description

MASTER PROOFER General Purpose Acetoxy Cure Silicone Sealant 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 sealing, assembling and serving as adhesive to wide range of substrate including glass, wood, pvc, plastic, galvanized metal/steel etc.

#### 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

#### 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, Industrial assemblies.

#### 4.0 Preparation

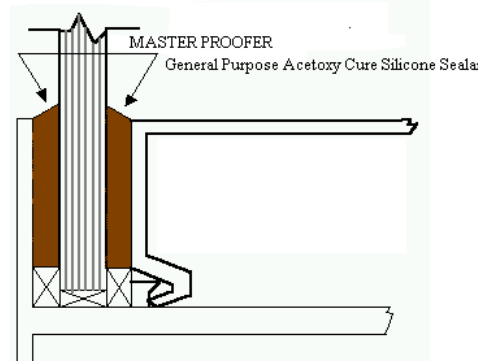
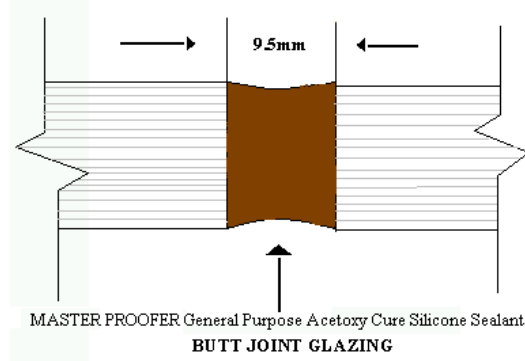
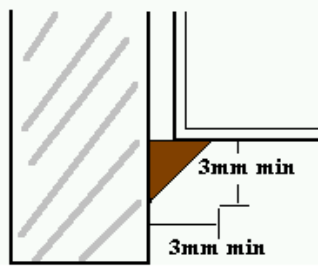
All surfaces should be sound, clean, dry, free of dust, oil, grease or other contamination. Loose matter should be removed by abrasion if necessary finally removing the dust by brush. Oil and grease are removed by the use of a cloth moistened with xylene or approved solvent. The cleaning cloth should 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 style="text-align: center;"><b>Joint Design Diagram A</b></p> 	<p style="text-align: center;"><b>Joint Design Diagram B</b></p> 
<p><b>Joint Design Diagram C</b></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><b>Note.</b> 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 General Purpose Acetoxy Cure Silicone Sealant 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 General Purpose Acetoxy Cure Silicone Sealant 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 General Purpose Acetoxy Cure Silicone Sealant is available in 300g disposable cartridge.



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### 高質酸性硅酮密封膠

萬寶牌高質酸性硅酮密封膠為一種單成份酸性高彈性模量硅酮建築用密封膠，它依據萬寶行建築化工集團指定規格製造，對玻璃、一般金屬、瓷器等提供可靠、具伸縮性及特長持久力的密封效能。

#### 技術資料

基礎聚合物成份(Base Polymer)	硅酮膠體(Silicone Rubber)
儲存環境(Storage Conditions)	須存於乾爽及保持在攝氏 5° 至 30° 之間。
存貨有效期(Shelf life)	12 個月(months)@ 25° C
硬度(Hardness, Shore 'A' Scale)	30 ASTM D676
有效施工環境溫度(Application Temperature)	攝氏 -20° 至 50°
凝固膠體溫度承受限度(Service Temperature)	攝氏 -40° 至 230°
開封後施工時效(Tooling Time @23°C 50%RH)	5-10 分鐘
攝氏 23° 及相對濕度 50%下初步凝固所需時間	10-20 分鐘
攝氏 23° 及相對濕度 50%下完全凝固 3.15mm 厚度所需時間	24 小時
估計凝固膠體平均壽命(Average Life expected)	超過 20 年
抗水侵蝕能力(Resistance to water)	良好
抗化學物侵蝕能力(Resistance to Chemical)	抗弱酸性、鹼。
燃燒性(Flammability)	非助燃物
抗紫外線老化能力(U.V. Resistance)	極高
符合規格(Standard compliance)	B.S. 5889B, ASTM 920-86 TT-S-001543A(COM-NBS) TT-S-00230C(COM-NBS) MIL-A-46106A, Amend. 2, Type. 1 FDA Reg No 21 CFR-177.2600
顏色選擇(Colour)	透明、灰、銀灰、黑、白、古銅或可訂做顏色
變位承受百分率(Movement Accommodation Factor)	±25%
伸展力強度, psi	30 ASTM D 412
拉長極限	500% ASTM D 412

#### 一般應用範圍

玻璃碰玻璃或金屬接口、窗內框、魚缸、特幼縫邊、輕型鋁板、室內潔具、瓷器、窗框定型填塞及工業用配件等。

#### 事前準備及應用步驟

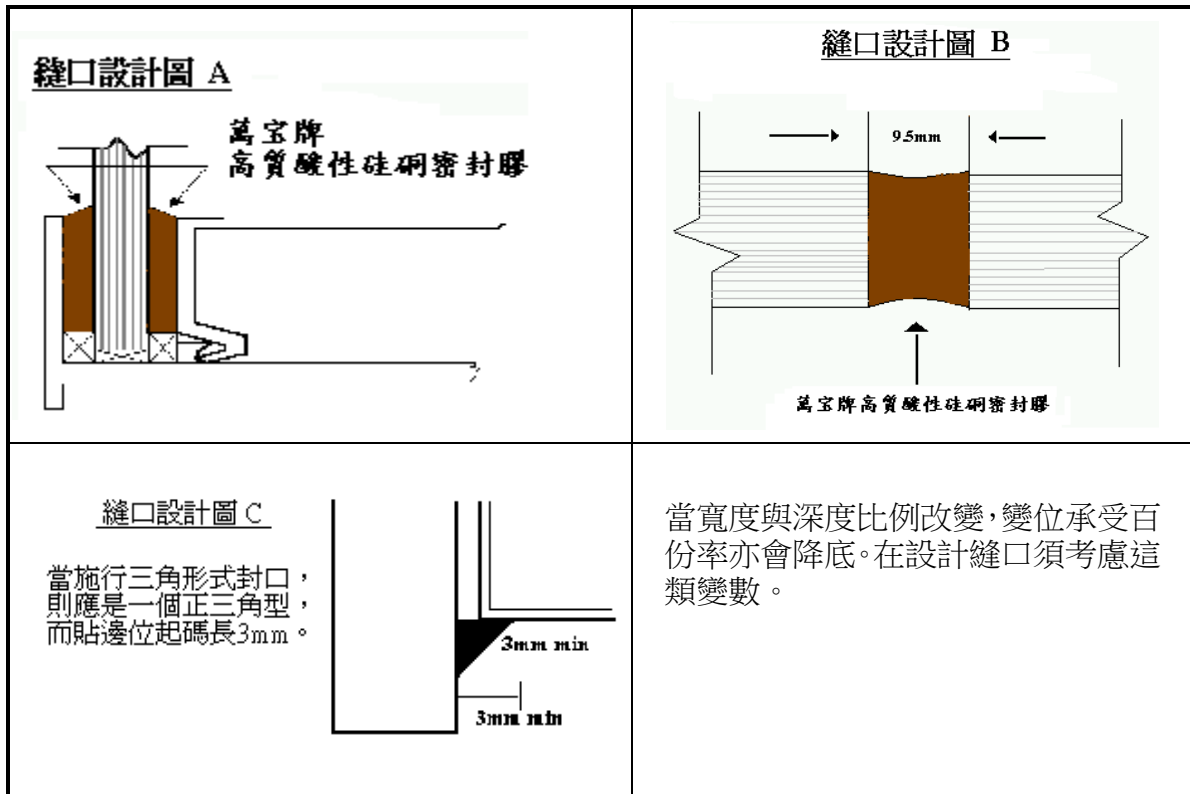
- 先將附著施工面上塵埃，油脂及疏鬆物質清除。
- 將墊底小圓棒(比原縫口寬度大約 30%)放於預算深度以支撐未凝固密封膠及作中介物以保持密封膠只黏附一個接觸。
- 如果縫口深度不足夠擺放墊底小圓棒，可以用自動黏式聚乙烯條代替。如應用接觸面超過兩個，應用自動式  
乙烯條將其餘接觸面和密封膠隔離。(有關縫口設計及底油選擇請參背頁)
- 如須預防縫口周邊黏上多餘密封膠，可先用自動黏式聚乙烯條將周邊貼妥並於施工後和密封膠未凝固前將條挑起。
- 施工前先確定底油已完全乾固。
- 將膠鎗咀斜切出一個適合縫口的實際大小，順貼施工面上將密封膠慢慢逼出、留意密封膠是否已將兩面緊施  
工於垂直縫口時可將鎗向下、從下至上施工。這可減低氣泡形成機會，令效果更理想。
- 在密封膠未凝固前用工具將表面燙平。

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## General Purpose Acetoxy Cure Silicone Sealant

縫口設計



### 工具清洗

可用二甲苯或天拿水清洗

### 衛生與安全

在正常使用及遵守一般處理化學品的情况下，萬寶牌高質酸性雁硅酮密封膠並不具備危險特性。進一步資料可參考物質指南。

### 用量預算

以下公式可估計所需用量:

$$\frac{\text{封口橫切面積}(\text{mm}^2) \times \text{縫口長度}(\text{M}) \times 1.04}{300} = 300\text{g 膠筒裝數量}$$

### 包裝形式

300g 膠筒裝