

RALLI RANGE®

偉利系列



Rallikol

772

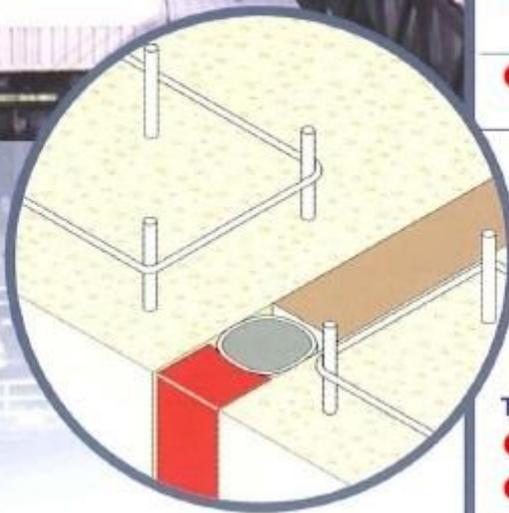
A two-part
Polysulphide sealant



UK Job 英國項目
Thames Barrier, London.
Image reproduced courtesy of Environment Agency



Hang Kong Job 香港項目
Hang Kong Baptist University 香港浸會大學



Features:

- Long term flexibility
- Excellent adhesion
- Excellent weather resistance
- Rallikol 772 conforms to:
ISO 11600-F-25LM
and B.S. 4254
- Rallikol 772PG conforms to:
TT-S-00227E
- Stress relaxation properties
reduce strain on substrate

Typical use:

- Movement joints in masonry
- Perimeter sealing of windows,
doors, etc.
- Glazing capping seals
- Pavement seals
- Factory floors

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MASTER PROOFER
香港萬寶建築化工
Integrity & Accuracy
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LABOND Range of products are designed, manufactured and supplied by MASTER PROOFER COMPANY LTD

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Form-MKT/MP/340.01



772

A two part, Polysulphide sealant

METHOD OF USE

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 with a dry brush. Oil and grease are removed by the use of a cloth moistened with **Ralliclean 071**, changing the cloth regularly to avoid redistributing the contaminants.

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. 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 a bond-breaker, ensuring that the sealant bonds only to the sides of the joint. If a rectangular section is used, ensure that it does not twist, thus changing the joint configuration of the joint.

Priming:

All joint substrates must be clean and dry before priming.

Metals: Clean with **Ralliclean 073**. The use of **Ralliprime 140** will improve adhesion.

Concrete, Brickwork, Stone, Unglazed tiles: Clean with **Ralliclean 071** followed by a coat of **Ralliprime 150**.

Glass and glazed surfaces: Wipe with **Ralliclean 071** and prime with **Ralliprime 140**.

Plastics, rubbers and Special Coatings: Seek the advice of the Technical Advisory Service. Adhesion/compatibility tests should be carried out prior to commencement of work.

Application:

Mix together the two components using a slow speed drill with spiral mixer at a maximum speed of 400rpm, until fully dispersed, taking care to prevent unmixed material remaining on the sides or bottom of the container. Ensure that all substrates and primers are dry prior to the application of sealant.

Rallikol 772GG: The gun or cartridges are loaded by laying the pressure plate on top of the mixed sealant, placing the open end of the barrel (or cartridge) over the hole in the plate and applying a steady downward pressure. The sealant is then applied using a closed barrel gun or with cartridges in a skeleton gun.

Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in the case of vertical joints, lightly tool the sealant into the joint. This will improve adhesion, reduce air content and enhance the appearance of the finished joint. To apply **Rallikol 772PG**, mix as **772GG** above, crimp the rim to form a spout and pour into the joint.

Cleaning tools and equipment:

Remove excess material with a cloth and then clean with **Ralliclean 073**

Coverage:

The number of sets required can be determined by using the formula:

$$\frac{\text{Cross-section of seal (mm}^2\text{) x Length (m)}}{\text{Volume of set (ml.)}} = \text{No. of sets}$$

(Note that no allowance has been made for wastage.)

Rallisil 940 is manufactured by: **Kommerling UK Limited**
 Unit 27, Riverside Way, Uxbridge Middlesex UB8 2YF, England
 Tel: 44 1895 465600 Fax: 44 1895 465617

JOINT DESIGN:

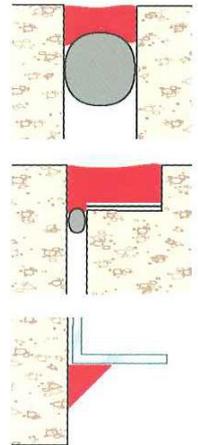
Laboratory tests show that in butt joints an optimum performance is achieved when:

Width : Depth = 2: 1

Wider joints may require more applications, allowing the sealant to cure slightly between applications.

If the joint is not deep enough to accommodate the foam backing strip, a self-adhesive polyethylene tape should be used to ensure that the sealant bonds only to the sides of the joint.

When used as a triangular fillet, there should be at least 6mm cover on each substrate and the fillet should be a regular triangle in cross section.



It is not considered to be good practice to paint high performance sealants. However, **Rallikol 772** can be painted, but in common with many other sealants, if significant movement occurs the paint film will craze, to the long-term detriment of the sealant.

Joints subject to traffic: Advice is available, the Movement Accommodation Factor is lowered and allowance must be made in the calculation of joint width.

TECHNICAL DATA:

Base Polymer	Polysulphide rubber
Storage Conditions	Keep dry between +5°C & 25°C
Shelf Life	12 months @ 25°C
Application Temperature	+5°C to 50°C
Pot Life	Min 2.5 hours at 20°C
Service Temperature	-40°C to +90°C
Cure Time	7 days at 20°C
Average life expected	More than 20 years
Water Resistance	Excellent
Chemical Resistance	Excellent
Flammability	Cured sealant does not readily ignite
U.V. Resistance	Good
Standards Compliance	U.S. Fed Spec TT-S-00227E British Standard 4254 (RALLIKOL 772GG only)
Colour	Grey (other colours available on request)
Movement Accommodation Factor	(Butt) 30% (Lap) 50%

PACKAGING:

Rallikol 772GG	2.5 litre sets (4 per carton)
Rallikol 772GG	5 litre sets (2 per carton)
Rallicprime 140/150	12X250ml tin, 1 X 1 litre tin & 1 X 5 litre can
Ralliclean 071/073	5 litre can

HEALTH AND SEAFETY:

Rallikol 772 can be considered to be free from dangers in normal use. Refer to Material Safety Data Sheet.

TECHNICAL SERVICE:

The services of the Master Proofer Technical sales team and technical services dept. are readily available for advice on the Company's products.

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Rallikol 偉利 772

A Two-Part Polysulphide Sealant

雙組份聚硫密封膠

產品簡介

偉利 772 為一種具備優良黏附力的雙組份密封膠，持久力特長，抗化力優良。產品符合英國 BS4254 規格及國際品質管理系統 ISO9001:2000。

技術資料

基礎聚合物成份(Base Polymer) 儲存環境(Storage Conditions) 存貨有效期(Shelf Life) 有效施工環境溫度(Application Temperature) 凝固膠體溫度承受限度(Service Temperature) 7 天在攝氏 20°情況下凝固速度(Cure Time) 估計凝固膠體平均壽命(Average Life Expected) 抗水侵蝕能力(Resistance to Water) 抗化學物侵蝕能力(Resistance to Chemicals) 可燃性(Flammability) 抗紫外線老化能力(U.V. Resistance) 符合規格(Standards Compliance) 顏色選擇(Colours) 變位承受百分率(Movement Accommodation Factor) 外層初步凝固時間(Pot Life)	聚硫膠合體 須存於乾爽及保持在攝氏 5° 至 25° 之間 12 個月(在室溫攝氏 25° 下) 攝氏 5° 至 5° 攝氏 -40° 至 90° 2mm/24 小時，全乾 7 天 超過 20 年 優良 抗弱性酸、鹼、酒精及脂肪族碳氫化合物 非易燃品 良好 B.S.4254 灰或可訂做顏色 30%平接 50 %搭接 2.5 小時(在室溫攝氏 20° 下)
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一般應用範圍

專門應用於水泥、石材、磚牆伸縮縫、水渠邊、泳池、長期浸水地點，亦可用於鋁料及球玻璃等。

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。根據物質類別，如有需要塗上適當底油並讓其乾固。
- 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兩個接觸面。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，應用自動黏式聚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閱背頁)
- 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貼條挑起。
- 施工前先確定底油已完全乾固，施工唧膠鎗為適用於 600ml 豬腸裝類型。
- 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貼，施工於垂直縫口時可將鎗向下，從上至下施工。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。

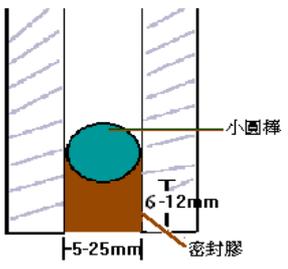
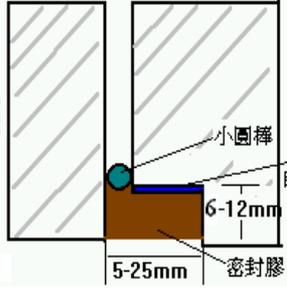
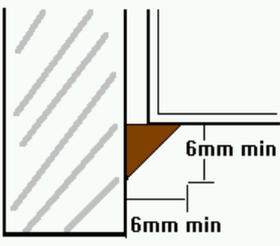
混合

A 部及 B 部同於一容器內，應用前用手工具或攪拌器先將兩部份完成全混合。

工具清洗

可用二甲苯或天拿水清洗。

縫口設計

<p>縫口設計圖 A</p> <p>從實驗中顯視當「對接型」縫口所啣上膠體的寬度和深度成 2:1 所發揮效果是最理想的。但如果縫口以撕拉式移動則需要將深度定大於寬度。</p> <p>較闊的縫口或需要分兩次施工來完成封口。第二次施工時需讓第一次的膠稍為凝固才開始。</p> 	<p>縫口設計圖 B</p> <p>如果縫口深度不足容納小圓棒，可改用自動黏式聚乙炔條以保證密封膠只與兩個平行接觸面黏合</p> 
<p>縫口設計圖 C</p> <p>當施行三角形色封口則應是一個正三角形而貼邊位起碼長 6mm。</p> 	<p>偉利 772 可塗上漆油但如其它密封膠一樣，若果出現較大幅的伸縮移位，漆油層會破裂亦同時影響密封膠的耐用性能。當寬度與深度比例改變，變位承受百分率亦會降底。在設計縫口須考慮這類變數。</p>

底油選擇

- i) 石屎、木質及多微孔面需塗上偉利 150 底油並需 45 分鐘至 2 小時乾固。
- ii) 非疏鬆及光滑面可用偉利 140 底油並需 45 分鐘至 2 小時乾固。

衛生與安全

在正常使用及遵守一般處理化學品的情況下，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：

$$\frac{\text{封口橫切面積}(\text{mm}^2) \times \text{縫口長度}(\text{m})}{2500 \text{ 毫升}} = \text{桶裝數量}$$

包裝形式

2.5 公升/組 (A 組及 B 組同載於一容器內)