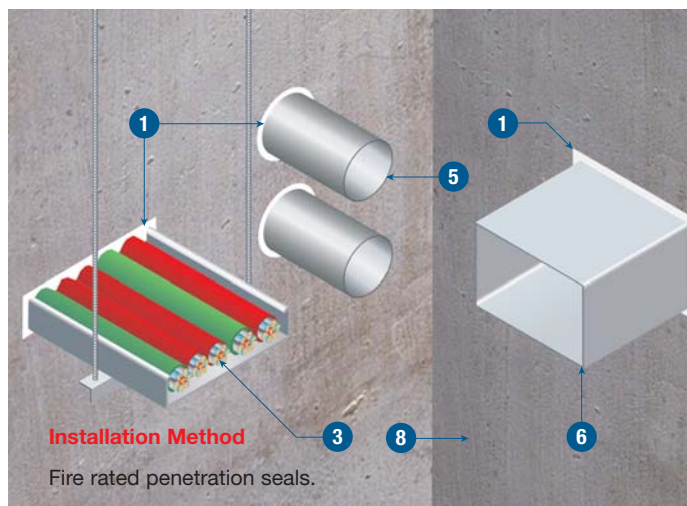


Promat



PROMASEAL® AN Fire Rated Acrylic Sealant For Penetration Seals & Control Joints





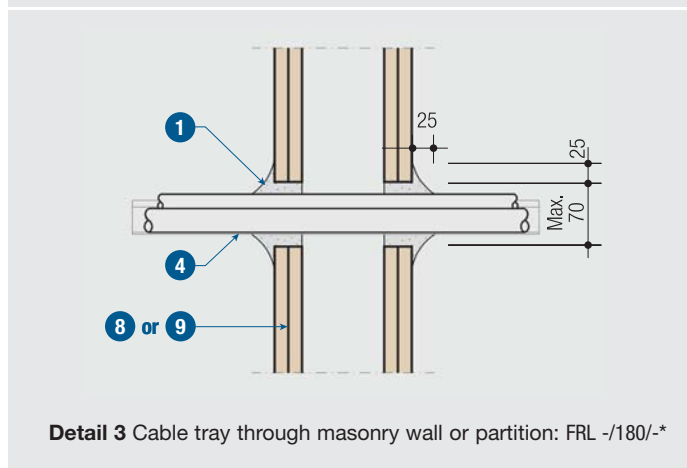
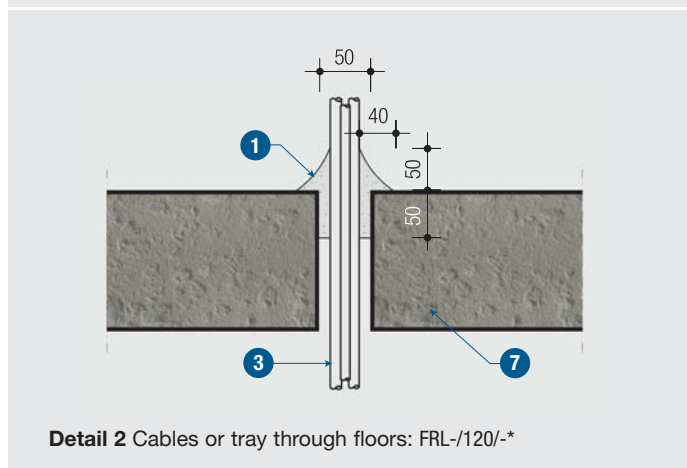
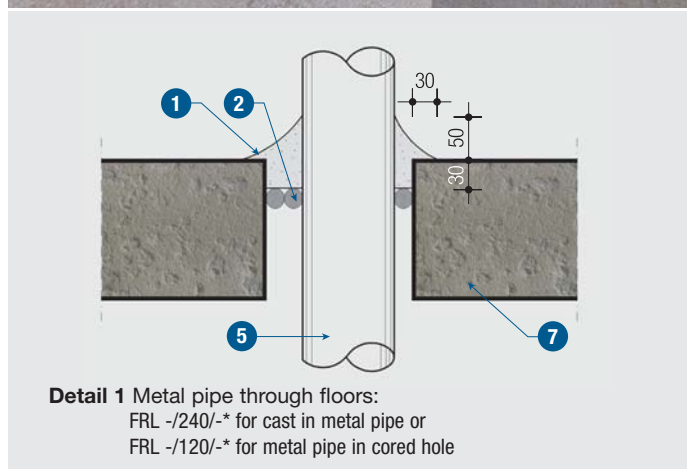
PROMASEAL® AN Fire Rated Acrylic Sealant is ideal for sealing around small gaps; with or without penetrating elements. Available in either white or grey colour and can be supplied in 10 litre buckets, 600ml foil pack or 300ml cartridges, it is ideal for sealing around metal pipes, cables, conduits, busways, and ducts which penetrate walls or floors.

PROMASEAL® AN Fire Rated Acrylic Sealant bonds easily to masonry, concrete, fibre cement, calcium silicate boards, plasterboard, metal and cable coverings and remains flexible after curing; which enables it to accommodate thermal movement.

The fire resistance achieved will be limited to the fire resistance of the substrate which is being sealed.

The size of the gaps around services that can be protected with PROMASEAL® AN Fire Rated Acrylic Sealant has limitations. For metal pipes passing through floors the gap between the pipe and floor should be no greater than 30mm. For metal pipes passing through walls, the gap between pipe and wall should be no greater than 20mm.

For bundles of cables passing through floors, the maximum opening should be no greater than 50mm Ø (approximately 2000mm²) and through walls, 38mm Ø (approximately 1100mm²). For cables located upon steel cable trays passing through walls, the maximum opening size should not exceed 70mm high x 440mm wide. In some instances when gaps are at the upper end of the range, sealant may be inclined to slump; in such cases the use of PROMASEAL® IBS™ may offer an improved solution, please contact your local Promat office for more information.

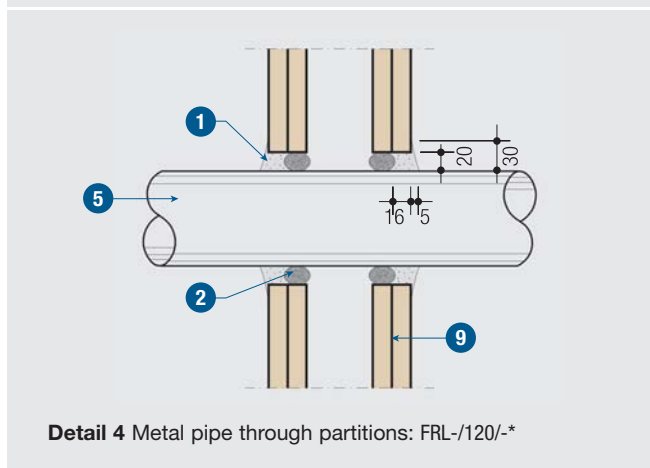


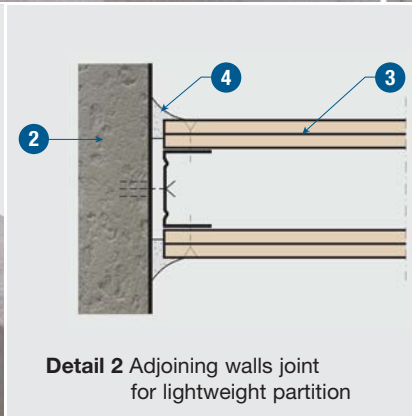
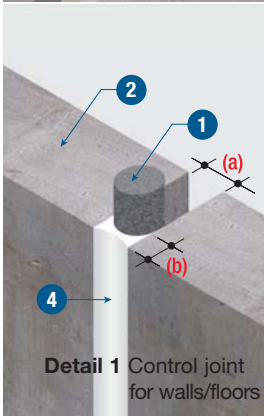
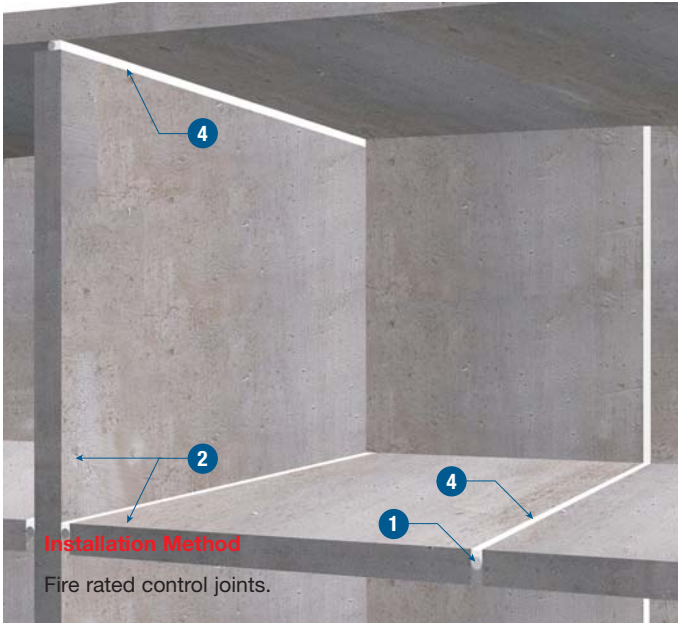
TECHNICAL DATA

Up to 3 hours fire rating in walls and 4 hours fire rating in floors (of similar or greater fire rating) in accordance with the appropriate criteria of AS 1530: Part 4 and AS 4072: Part 1.

- 1 PROMASEAL® AN Fire Rated Acrylic Sealant
- 2 Polyethylene backing rod or strip
- 3 Cables
- 4 Cable tray
- 5 Metal pipes up to 150mm diameter
- 6 Ventilation duct (please contact your local Promat office for details)
- 7 Concrete floor
- 8 Masonry wall
- 9 Lightweight partition

*The FRL achieved will vary and depends on the application and type of service. Insulation criteria may have to be waived on some services. Please contact Promat for details before installation.





PROMASEAL® AN Fire Rated Acrylic Sealant is a flexible water based gunnable sealant designed for the sealing of joints and services penetration against spread of fire, smoke and hot gases for up to 4 hours fire resistance.

Adhesion to most types of surfaces is excellent. PROMASEAL® AN Fire Rated Acrylic Sealant cures in air to form a non-hardening, tack-free seal.

When specifying or sourcing a sealant for a control joint, it is essential that the characteristics of each control joint are taken into account. Control joints are provided between elements of construction to allow for differential movement caused by a number of factors including shrinkage, thermal expansion, service loads, creep or as means of joining pre-cast units.

PROMASEAL® AN Fire Rated Acrylic Sealant has been tested in accordance with ISO 9046: 2nd Edition 2002-05-01 and achieved ±15% movement without cracking, however this sealant is not recommended for use where movement is a high priority. For good adhesion the surfaces of the substrates must be free of any dust or grease and be suitably primed where necessary.

For control joints subjected to high movement requirements, please contact your local Promat office and request information on PROMASEAL® FyreStrip.

TECHNICAL DATA

Up to 4 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 20 and AS 1530: Part 4.

- 1** Polyethylene backing rod or strip (optional)
- 2** Concrete wall or floor
- 3** Dry wall
- 4** PROMASEAL® AN Fire Rated Acrylic Sealant, sealing depth as below. Please check with your local Promat office to ensure the correct use of the sealant specified:

| 2 hours fire resistance | | | | | |
|-------------------------|----------------------|----------------------|--|------|------|
| Gap width (a) | 10mm | 20mm | 30mm | 40mm | 50mm |
| Fire side only (b) | 10mm | 10mm | 15mm | 20mm | 20mm |
| Non fire side | 10mm | 10mm | Please refer to information of PROMASEAL® IBS™ at www.promat-ap.com/pdf/si80.pdf . | | |
| Both sides | 10mm | 10mm | 15mm | 20mm | 20mm |
| 3 hours fire resistance | | | | | |
| Gap width (a) | 10mm | 20mm | 30mm | 40mm | 50mm |
| Fire side only (b) | 10mm | 10mm | 15mm | 20mm | 20mm |
| Non fire side | 10mm | 10mm | Please refer to information of PROMASEAL® IBS™ at www.promat-ap.com/pdf/si80.pdf . | | |
| Both sides | 10mm | 10mm | 15mm | 20mm | 20mm |
| 4 hours fire resistance | | | | | |
| Gap width (a) | 10mm | 20mm | 30mm | 40mm | 50mm |
| Fire side only (b) | 20mm | 20mm | 20mm | 20mm | 20mm |
| Non fire side | 10mm (FRL -/240/180) | 10mm (FRL -/240/180) | Please refer to information of PROMASEAL® IBS™ at www.promat-ap.com/pdf/si80.pdf . | | |
| Both sides | 10mm | 10mm | 15mm | 20mm | 20mm |

USAGE:
To calculate the sealant volume, multiply joint width (mm) x depth (mm) x length (M) and divide by the container volume (ml).
For example:
20mm x 10mm x 50M ÷ 600ml = 17 sausages or 1 x 10lt pail.

NOTES: Typical floor and wall element thicknesses are 120mm, 150mm, 170mm for 2, 3, 4 hours respectively.

JOINT MOVEMENT TEST

Report No. 05MAAD09737 (Dated November 3, 2005)

| Test Specification | Test | Result |
|---------------------------------------|--|--|
| ISO9046: 2nd Edition 2002-05-01 | Determination of adhesion/cohesion properties of sealants at constant temperature. | PROMASEAL® AN Fire Rated Acrylic Sealant was applied and cured for 28 days at room temperature. The sample was then subjected to 14 days heat ageing in an oven at 70°C. After the preconditioning and specific conditioning the sample was subjected to ±15% joint movement. Failure of the cement block noted after 45 cycles. After 100 cycles there were no cracks or visible defects observed in the joint. |

PRODUCT TEST

Report No. 05MAAD02070: Final – Part 1 (Revision 1) (Dated July 26, 2005)

| Test Specification | Test | Result | | | |
|---|---|---|--------------------|---|----------------------------|
| | Total solid content. | Tare (g): 3.600 | Before (g): 37.700 | After (g): 32.096 | Total solid content: 85.1% |
| ASTM D 792: 2000 (Method A) | Density and specific gravity (relative density) of plastics by displacement | Specific Gravity 23/23°C = 1.808 | | | |
| ASTM D 412: 1998a | Vulcanised rubber and thermoplastic elastomers tension | Tensile strength (N): 0.28 N/mm ² | | Elongation (%): 248 | |
| | Shrinkage | 6.4% | | | |
| Water analysis determination of pH values | pH | pH at 23.4°C = 9.3 Sample type = Water extract 1 in 5 dilution | | | |
| ASTM D 2240: 2002 (Shore A) | Rubber property durometer hardness | Reading 1 = 52 Reading 2 = 53 Reading 3 = 46 | | Hardness = 50 | |
| | Skin time | 14 minutes | | | |
| ASTM D 4541: 1995 | Pull-off strength of coatings using portable adhesion testers (elcometer) | Test 1 = 0.5N/mm ² Test 2 = 0.5N/mm ² Test 3 = 0.5N/mm ² Test 4 = 0.6N/mm ² Test 5 = 0.6N/mm ² | | Pull of strength (average) = 0.5N/mm ² | |
| ASTM C 794: 1993 | Adhesion of peel of elastomeric joint sealants | Sample 1 = 11.8N | Sample 2 = 10.6N | Maximum load (average) = 11.2N | |
| | Cure time | 1.14mm per day (8mm in 7 days). | | | |
| | | Adhesion in peel test was carried out after 7 days curing at 23 ± 2°C /50 ± relative humidity. | | | |

PRODUCT TEST

Report No. 05MAAD05420 (Dated July 26, 2005)

| Test Specification | Test | Result |
|---|--|---|
| ASTM C 719: 1993 (Re-approved 1998) | Adhesion and cohesion of elastomeric joint sealants under cyclic movement – Hockman cycle. | PROMASEAL® AN Fire Rated Acrylic Sealant was cured for 30 days and were then subjected to 10 cycles of ±5% joint movement. No visible defects after 10 cycles. No loss of adhesion or cohesion noted. |

Important Notes

Promat product data sheets and health and safety data sheets are regularly reviewed and are available on request. The successful use of this product is dependent on a number of factors. As the information contained in this literature can only be of a general nature, it is advisable to consult our technical department if there is any doubt about the correct use of this product in a particular application. Our technical representatives and advisors are available to provide further technical and commercial assistance.

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