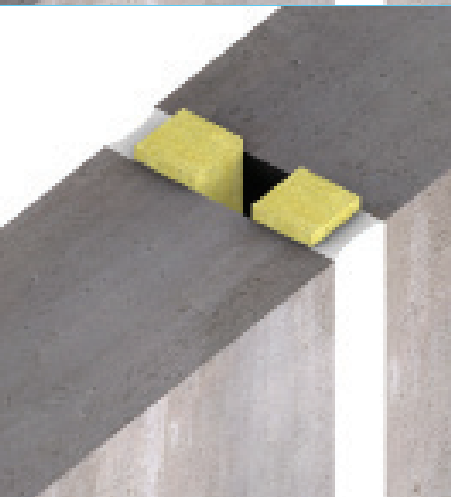
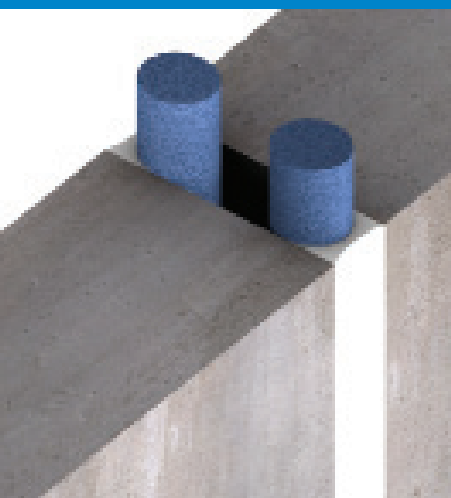


# Promat PROMASEAL® Intumescent Acrylic Sealant

## APPLICATIONS

Promat PROMASEAL® Intumescent Acrylic Sealant is suitable for sealing small gaps and holes in applications requiring up to 240 minutes fire resistance. Promat PROMASEAL® Intumescent Acrylic Sealant is suitable for most applications but Promat PROMASEAL® Silicone Sealant would be required for service temperatures over 70°C or where increased joint movement capability is needed. Acoustic data is available on this product, please contact the Technical Services Department on +971 (4) 232 9780.



**NOTE:** If the fire risk is from both sides of the gap, then the sealant should be installed on both sides.

## INTRODUCTION

Promat PROMASEAL® Intumescent Acrylic Sealant is supplied in a 310ml cartridge and has excellent adhesion to most types of surfaces. The sealant cures in air to form a non-hardening, tack-free seal, preventing the passage of smoke, toxic gases and fire.

## FIRE PERFORMANCE

The fire performance of Promat PROMASEAL® Sealants will vary according to the particular application, the surrounding substrates, the depth of sealant applied and the amount of sealant exposed to heat. Promat PROMASEAL® Sealants have been tested to the procedures adopting the criteria of BS 476: Part 20: 1987. Please note that if the fire risk is from both sides of the gap, then the systems described should be installed on both sides.

## ADVANTAGES of Promat PROMASEAL® Intumescent Acrylic Sealant

- Good movement capability
- Tack-free
- Fire tested up to 240 minutes (integrity)
- Will not slump
- Halogen free
- Suitable for joints up to 50mm wide
- Flexible
- Good adhesion to most building products
- Can be overpainted (Intumescent Acrylic Sealant only)
- Suitable for internal and semi-exposed applications

## PAINTING

Promat PROMASEAL® Intumescent Acrylic Sealant can be overpainted after approximately 48 hours (dependent on ambient conditions). Consideration should be given to the flexibility of the finished painted coat when movement is expected. PROMASEAL® Silicone Sealant cannot be overpainted.

## INSTALLATION

Promat PROMASEAL® Sealants will adhere to most construction materials. If in doubt, the sealant should be applied to a small length of joint and examined, or the Promat Technical Services Department should be contacted.

All surfaces should be clean, dry, oil and grease-free, although very porous surfaces may need to be wetted with clean water to prevent too rapid drying of the sealant before proper cure. Surfaces should also be free of dust and friable particles. It is advisable to tool the sealant firmly against the joint faces and the sealant can be dressed off with a wetted trowel.

## QUANTITY REQUIRED

Promat PROMASEAL® Sealants are packaged in 310 ml cartridges. To calculate the approximate number of cartridges required, use the following formula:

$$\text{No. of cartridges required} = \frac{\text{Joint length (m)} \times \text{joint width (mm)} \times \text{sealant depth (mm)}}{310}$$

This does not allow for wastage. Please note that joint length is in metres (m) but joint width and sealant depth are in millimetres (mm).

Property	PROMASEAL® Intumescent Acrylic	Property	PROMASEAL® Intumescent Acrylic
Sealant base	Water-based acrylic sealant	Service temperature range	-20 to +70°C
Cure system	Water loss	Joint movement capability	± 12.5%
Speed of Cure (23°C, 50% RH)	-	Slump	Nil at joints up to 28mm
Skin over time (23°C, 50%RH)	Minimum 15 minutes	Elongation at break	N/A
Overpaint times	48 hours	Expansion in fire conditions	300%
Application temperature range	+5 to +30°C	Shelf life when stored between 5°C to 30°C	12 months



# Promat PROMASEAL® Intumescent Acrylic Sealant

Certifire Approval No CF 431

## Promat PROMASEAL® Intumescent Acrylic Sealant - Approval Matrix

Wall and Floor Installations						
Product Name		Promat PROMASEAL® Intumescent Acrylic Sealant				
Configuration	Maximum Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)	
Wall Constructions	Aerated blockwork/aerated blockwork	50	25	Ethafoam 50mm diameter	240	60
	Hardwood/aerated blockwork	50	25	Ethafoam 50mm diameter	60	60
	Softwood/aerated blockwork	25	12	Ethafoam 30mm diameter	30	30
	Steel/ aerated blockwork	30	15	Polyethylene 40mm diameter	240	90
	Steel/ aerated blockwork	50	25	Ethafoam 30mm diameter	60	30
	Brick/autoclaved aerated concrete	25	10	Polyethylene 30mm diameter	240	30
	Autoclaved aerated concrete/ autoclave aerated concrete	30	15	Polyethylene 30mm diameter	240	180
	Autoclaved aerated concrete/ autoclave aerated concrete	20	10	Polyethylene 20mm diameter	240	240
	Autoclaved aerated concrete/ autoclave aerated concrete	40	20	Polyethylene 50mm diameter	240	180
	Autoclaved aerated concrete/ autoclave aerated concrete	50	25	Polyethylene 60mm diameter	240	180
	Autoclaved aerated concrete brick	15	10	Polyethylene 20mm diameter	240	0
Floor Constructions	Aerated concrete/aerated concrete	20	10	Polyethylene 30mm diameter	240	120
	Aerated concrete/aerated concrete	30	15	Polyethylene 40mm diameter	240	60
	Aerated concrete/aerated concrete	40	20	Polyethylene 50mm diameter	240	60
	Aerated concrete/aerated concrete	50	25	Polyethylene 60mm diameter	240	180
	Softwood/aerated concrete	25	12	Ethafoam 30mm diameter	30	30
	Hardwood/aerated concrete	50	25	Ethafoam 50mm diameter	30	30
	Steel/aerated concrete	50	25	Ethafoam 50mm diameter	60	60

**Application Technique:** For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed.

*The concrete walls must be at least 150mm thick and the floors at least 230mm thick and have at least the same fire rating as that required for the penetration seal. Masonry and concrete gap faces will be within the density range of 450 to 2300kg/m<sup>3</sup>, and gap faces will be free from loose or flaking material.*



**Promat Fire Protection**

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### HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the product. The product is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. This can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.