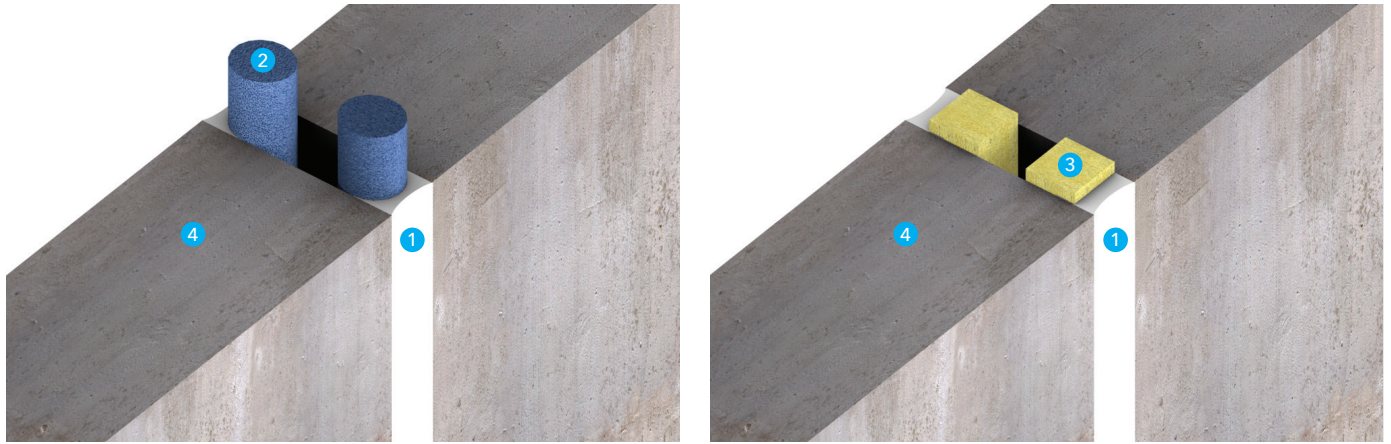


Promat PROMASEAL® Silicone Sealant



General description

Promat PROMASEAL® Silicone Sealant is a silicone-based fire protection sealant, supplied in 310ml cartridges. Adhesion is excellent to most types of surface. The sealants cure in air to form a non-hardening, tack-free seal, preventing the passage of smoke, toxic gases and fire.

Application

Promat PROMASEAL® Silicone Sealant is suitable for sealing small gaps and holes in applications requiring up to 240 minutes fire resistance.

Installation

Promat PROMASEAL® Silicone Sealant will adhere to most construction materials. If in doubt, the sealant should be test applied to a small length of joint and examined, or the Technical Services team should be contacted. Promat PROMASEAL® Silicone Sealant cannot be overpainted.

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. Any loose paint should be removed from steel. It is advisable to tool the sealant firmly against the joint faces and dressed off with a wetted towel.

Key to Illustrations

- ① Promat PROMASEAL® Silicone Sealant
- ② Polyethylene backing strip
- ③ Mineral wool
- ④ Masonry or concrete wall

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

Property	PROMASEAL® Silicone Sealant
Sealant base	Silicone
Cure system	Oxime
Speed of cure (23°C, 50% RH)	4mm/day approx. 10mm/6 days approx.
Skin over time (23°C, 50% RH)	Minimum 15 minutes
Overpaint times	N/A
Application temperature range	+5 to +30°C
Service temperature range	-30 to +150°C
Joint movement capability	± 25%
Slump	Nil at joints up to 28mm
Elongation at break	250%
Shelf life when stored between 5°C to 30°C	9 months

Promat PROMASEAL® Silicone Sealant - Approval Matrix: BS EN 1366-4: 2006

Wall Installations min.150mm Thick					
Product Name		PROMASEAL Silicone Sealant			
Configuration	Max. Joint Width (mm)	Minimum Seal Depth (mm)	Seal position	Integrity (mins)	Insulation (mins)
Masonry to Masonry	60	5mm Sealant both faces, backed by stone wool 50mm thick (60kg/m ³)	Both Faces	240	240
Masonry to Steel				240	60
Masonry to Hardwood				180	60
Masonry to Softwood				240	180
Masonry to Masonry	50	25mm Sealant both faces, backed by PE backing rod		240	180
Application Technique	For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed.				

Floor Installations min.150mm Thick					
Product Name		PROMASEAL Silicone Sealant			
Configuration	Max. Joint Width (mm)	Minimum Seal Depth (mm)	Seal position	Integrity (mins)	Insulation (mins)
Masonry to Masonry	60	5mm Sealant unexposed face, backed by stone wool 50mm thick (60kg/m ³)	Unexposed face	240	180
Masonry to Steel				90	45
Masonry to Masonry		5mm Sealant exposed face, backed by stone wool 50mm thick (60kg/m ³)	Exposed face	90	60
Masonry to Steel				120	60
Masonry to Masonry	60	30mm Sealant unexposed face, backed by PE backing rod	Unexposed face	240	60
	12	6mm Sealant unexposed face, backed by PE backing rod		240	120
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 floors and/or masonry or concrete walls must be at least 150mm thick and have at least the same fire rating as that required for the penetration seal. Masonry and concrete gap faces must be within the density range of 760 to 2300kg/m³ and gap faces free from loose or flaking material. Steel gap faces will be in material at least 6mm thick and will be free from dirt, loose rust, grease and other coatings. The steel member will remain free from significant deflection or thermal movement that increases the original gap width by more than 10% when exposed to standardised fire test conditions.