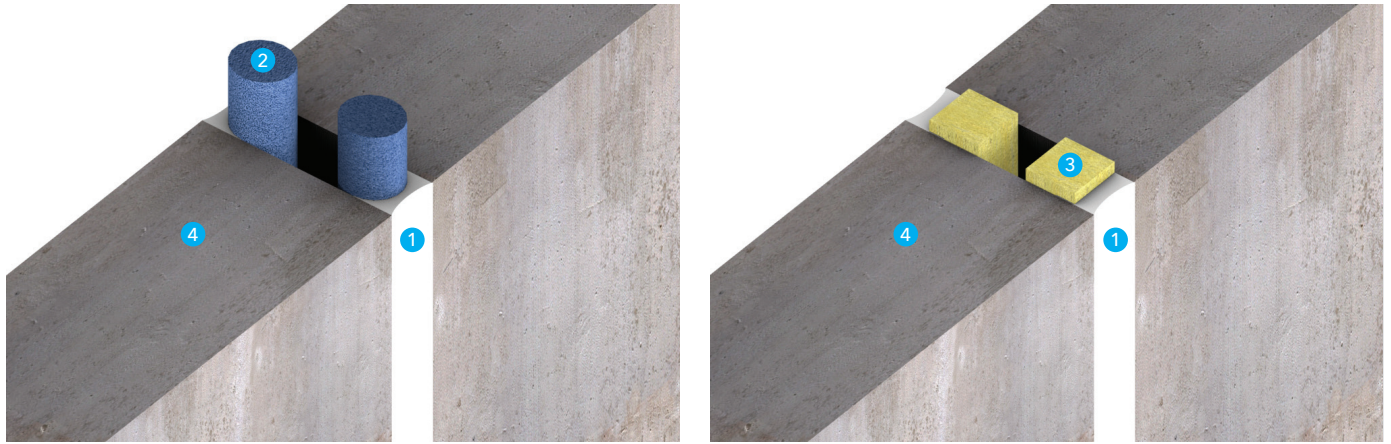


Promat PROMASEAL® Silicone Sealant



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 nonhardening, 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 476: Part 20: 1987

Wall and Floor Installations					
Product Name		PROMASEAL Silicone Sealant			
Configuration	Max. Joint Width (mm)	Minimum Seal Depth (mm)	Seal position	Integrity (mins)	Insulation (mins)
Concrete or masonry or steel to timber gap surfaces, 125mm thick	30	22	Single or double sided seal, exposed or unexposed face	30	30
		44		60	60
Concrete or masonry to steel gap surfaces	30	30	Double-sided seal (two 15mm deep beads)	240	240
Concrete or masonry gap surfaces, 125mm thick	10	5	Single sided seal on the exposed or unexposed face	240	0
	20	10		240	0
	30	15		240	0
Concrete or masonry gap surfaces at least 100mm thick	10	5	Exposed	30	30
		5	Unexposed	30	30
		5 + 7	Both	90	90
		7 + 7	Both	120	120
	20	10	Exposed	30	30
		10	Unexposed	30	30
		10 + 10	Both	90	90
		12 + 12	Both	120	120
	30	18	Exposed	30	30
		15	Unexposed	30	30
15 + 15		Both	120	120	
Concrete or masonry gap surfaces at least 125mm thick	10	5	Unexposed	120	120
		5 + 5	Both	180	180
	20	10	Unexposed	90	90
		10 + 10	Both	120	120
		12 + 12	Both	120	120
	30	15	Unexposed	30	30
		17	Unexposed	30	30
		15 + 15	Both	120	120
18 + 18	Both	180	180		
Concrete or masonry gap surfaces at least 215mm thick	10	5	Unexposed	240	240
		5 + 5	Both	240	240
	20	10	Unexposed	120	120
		10 + 10	Both	240	240
	30	15	Unexposed	120	120
		15 + 15	Both	240	240
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed.			
Resistance to Smoke		Not evaluated by this approval			
Acoustic Rating		Not evaluated by this approval			
Weather Capability		Not evaluated by this approval			
Movement Capability		Not evaluated by this approval			

The concrete floors and/or masonry or concrete walls must be at least 100mm 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 450 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.

Technical Services

For technical support and advice
T: 0800 145 6033 or 01275 377 789
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