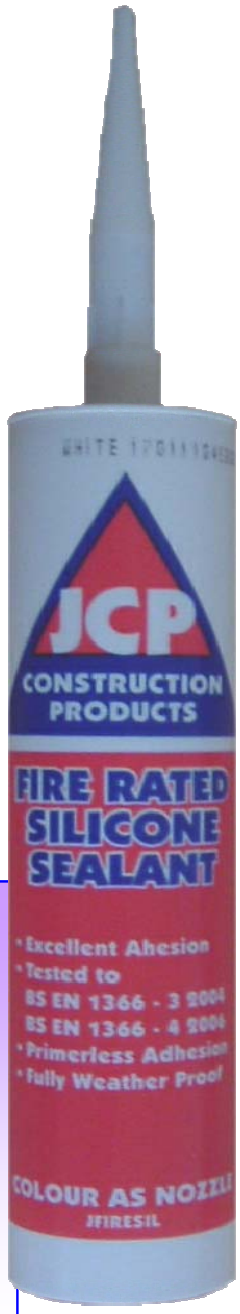
JCP CONSTRUCTION PRODUCTS

Fire Rated Silicone Sealant

Part No: JFIRESIL



DESCRIPTION

A one part, low-modulus, silicone sealant formulated to provide a high degree of fire retardancy in a variety of joint configurations. It has been independently tested and will achieve an integrity and insulation values in excess of 4 hours, in certain joint configurations.

It exhibits excellent unprimed adhesion to most building components and is suitable for sealing a wide range of construction and expansion joints in buildings where heat and fire resistance is required. It cross links at room temperature to give a low modulus flexible seal which will withstand movement of 25% in constant service throughout a wide temperature range.

It exhibits excellent primerless adhesion to a wide range of substrates such as Glass, Anodised and Mill Finished Aluminium, Steel, Stainless Steel, Rigid PVC, Concrete, brick and other porous surfaces.

Once cured, the sealant offers superb long term resistance to heat and fire as well as general weather elements.

USES

Typical applications include; expansion and construction joints in walls and cladding panels, perimeter pointing and sealing of fire rated structures, sealing of service penetrations, roofing and conservatory applications, capping sealant for bead glazing and general sealing work.

APPLICATION INSTRUCTIONS

The correct application of the sealant is essential to achieving the level of fire retardancy obtained during the fire tests.

Surfaces to which the Fire Rated Silicon is to adhere must be clean and free from dust and loose material, standing water and other contaminates which might otherwise impair the bond. Non-porous surfaces such as aluminium should be cleaned with a suitable product to remove any oil, grease or dirt film.

For applications where movement will be exhibited i.e. construction joints, the minimum joint dimensions should be 6mm x 6mm and the maximum dimensions being 25mm wide x 12mm deep. Where deeper joints are found, depth can be reduced using a suitable backing rod. For perimeter pointing a minimum joint width of 10mm across x 6mm deep is required. Once applied sealant can be tooled within 5 minutes to required finish.

LIMITATIONS

Silicone sealants generally should not be used in situations where abrasion from pedestrians or traffic may be encountered, or for submerged joints in porous substrates, which may permit water to reach the bond interface.

Do not use for applications subject to contact with food products

Do not use in the manufacture of aquariums or sealing swimming pools

Always check to determine suitability of the sealant on surface that may give cause for concern

TECHNICAL HELPLINE 020 8546 6545

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Tel. 0208 546 6545 Fax 0208 546 6019 email jcpenquiries@owlett-jaton.com

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TECHNICAL DETAILS

Cure System	Alcoxy
Specific Gravity	1.35 - 1.38
Skinning time	5/10 minutes Approx (at 23°C and 50% relative humidity)
Tack free time	25 minutes Approx (at 23°C and 50% relative humidity)
Full cure	Approx 2-3mm per 24Hrs (at 23°C and 50% relative humidity)
Shore A hardness	22
Movement accommodation	25%
Mechanical Properties on a 2mm thick film (NF T 46002)	
Modulus at 100% elongation	0.37Mpa
Elongation at break	550%
Tensile strength	1.5Mpa
Mechanical Properties on glass slab (EN 28339)	
Modulus at 100% elongation	0.32Mpa
Elongation at break	260%
Tensile strength	0.55Mpa
Application temperature range	+5°C to +40°C
Service temperature range	-50°C to +150°C
Slump resistance	Excellent. May be used in joints up to 25mm wide and 12 mm deep
Shelf Life	12 months when stored in unopened cartridges in cool dry conditions
Life expectancy	When used and applied correctly the sealant will perform in excess of 20 years
Chemical resistance	The cured sealant is unaffected by water, dilute acids and alkalis, soap and household detergents. Certain solvents may soften and swell the rubber on prolonged contact.

STANDARDS

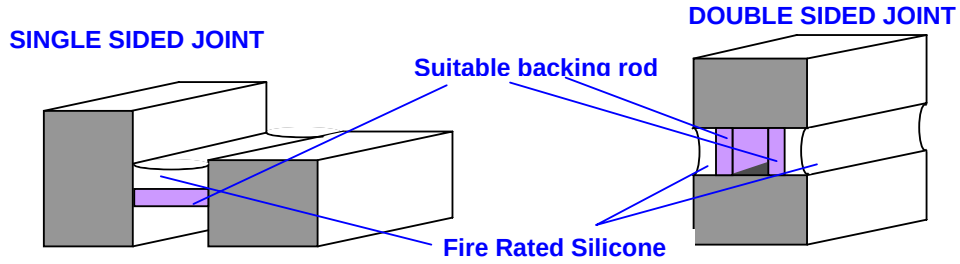
Meets ISO 11600 standard with the classification ISO 11600 F&G-25LM
Tested to BS EN 1366 part 4 at Warrington.

STORAGE

Store in cool dry conditions between +5°C and +25°C

COVERAGE

I Cartridge is sufficient to seal approximately 8.5mt with a 6mm x 6mm bead or 2,5mt with a joint dimension of 15mm x 8mm



TYPICAL FIRE RESISTANCE

Joint Type	Width mm	Depth mm	Insulation mins.	Integrity mins.
Single	15	10	233	255
Double	40	25	264*	264*
Single	25	15	138	264*
Double	15	10	264	264

HEALTH & SAFETY Obey normal Health & Safety and hygiene rules. Consult health & Safety Data Sheet

SALES OFFICES

Dartford	*01322 277733*	*Stone*	*01785 819819*
Elland	*01422 370121*	*Swindon*	*01793 527829*
Milton Keynes	*01908 330050*		

HEXSTONE LIMITED

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