

Detafire Silicone

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DESCRIPTION

DETAfire SILICONE is a non-toxic, solvent-free, one component fire retardant silicone sealant (RTV-1), based on a neutral alkoxy curing system.

DETAfire SILICONE has been tested to BS 476: Part 20: 1987 and prEN 1366-3: 1998 in both horizontal and vertical joints up to 50 mm wide.

DETAfire SILICONE maintained its integrity during the test period (241 minutes) with temperatures rising to 1150°C

APPLICATIONS

DETAfire SILICONE is ideal for fire rated construction movement joints and perimeter pointing as it has an excellent primerless adhesion to most of the materials used in the building and engineering industries such as steel, concrete, brick, blockwork etc. On porous surfaces, a primer is recommended.

JOINT DIMENSIONS

Joint width	Joint depth	Backing Material	Integrity	Insulation
50 mm	25 mm	50 mm thick ceramic fibre	241 min	150 min
20 mm	10 mm	PU foam tube	241 min	70 min

BACK UP MATERIAL

Polyurethane closed backer rod with closed cells or ceramic fibre of 96 kg/m³

PROCESSING TEMPERATURE

Between +5°C and +40°C.

PREPARATION

All surfaces should be dry, clean and free from dust or grease. When necessary, degrease with **Top Cleaner**, MEK, or alcohol. It is recommended that apply a small test area prior to general use.

TOOLING

When needed with **DL100** or tools.

COLOURS

White, grey. Other colours are available on request (75 cartridges or multiple).

CLEANING

Before vulcanisation:

- a) tools: with white spirit or solvent
- b) surfaces: with **Parasilico Cleaner**

After vulcanisation:

Remove as much as possible mechanically; the remainders of the silicone with **Silicone Remover**.

JOINT REPAIRS

With the same product.

SHELF LIFE

Min.12 months if kept in the original packing and stored in cool and dry conditions between +5°C and +25°C.

PACKING

25 cartridges of 310 ml/box – 48 boxes/pallet
25 sausages of 400 ml/box - 48boxes/pallet
20 sausages of 600 ml/box - 45 boxes/pallet

LIMITATIONS

The sealant should not be subjected to thermal, mechanical or chemical attack before vulcanisation is complete.

METHOD OF USE

Apply with use of standard sealant applicator gun. Joint design is essential for the fire rating properties of the sealant (see test dimensions).

TECHNICAL AGREEMENT

Tested by Warrington Fire Research, report nr 10696 issue 2 - BS 476 : Part 20 : 1987 and prEN 1366-3 : 1998

LIMITATIONS

Use in well ventilated rooms. Do not expose to thermal, mechanical or chemical influences before complete vulcanisation. Good ventilation is important during application and vulcanisation of the product.

SAFETY

Refer to our safety data sheet.

052012

The data on this sheet have been drafted according to the last state of the laboratory data. Technical characteristics can be changed or adapted. We are not responsible in case of incompleteness. Before usage, one needs to ensure that the product is suitable for its application. Therefore, tests are necessary. Our general conditions apply.

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PROPERTIES

Unvulcanised rubber

Type of sealant	Polysiloxanes
Vulcanising system	Vulcanising through moisture in the air
Skin forming time (23°C and 50 % R.H.)	20 min
Vulcanisation rate (23°C en 50 % R.H.)	1-2 mm / 24 h rs
Density (ISO 1183)	1.34 g/ml

Vulcanised rubber

Shore A hardness (ISO 868)	20
Elastic recovery (ISO 7389)	> 90 %
Movement capability	25 %
Modulus at 100 % elongation (ISO 37 rod S1)	0.38 N/mm ²
% Ultimate Elongation (ISO 37 rod S1)	170 %
Service temperature as a sealant	-40°C to + 100°C. Loses elasticity above 150°C, keeps its integrity (joint protection) up to 1150°C

