

FireSilicone-EMA

Elastic, Malleable, All-weather, Fire-rated silicone sealant for up to 4 hours fire protection



Technical Data Sheet

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KEY BENEFITS

- Highly flexible, can be used in gaps up to 100mm
- Fire resistant up to 4 hours in both horizontal and vertical joints
- Low smoke and toxicity
- Halogen free, ozone and radiation resistant
- Approved to EN 1366.4(2009)
- See MORE benefits below

INTRODUCTION



FireSilicone-EMA is a one-part silicone sealant. It has excellent adhesion to porous and non-porous substrates used in the construction industry and offers high performance fire-rated silicone sealant for fire sealing applications up to 100mm. With excellent weatherability, flexibility and being odourless, it offers up to 240 minutes fire resistance.

FireSilicone-EMA can be used for fire stopping curtain walling, building facades, expansion joints, door frames, block work walls, linear gap seals, etc.



BENEFITS

- ✓ Fire resistance testing up to 240 minutes
- ✓ Certifire 3rd Party Accreditation
- ✓ Excellent acoustic isolation properties
- ✓ Air Permeability testing to 600Pa
- ✓ Weathering testing to ISO 11431
- ✓ Fire resistant up to 4 hours in both horizontal and vertical joints
- ✓ Low Smoke and Toxicity
- ✓ Can be used in gaps up to 100mm wide
- ✓ Halogen free, ozone and radiation resistant
- ✓ Non-slump, easy to apply and tool off
- ✓ No priming required for most substrates
- ✓ Causes no known side effects to plastic pipes, plastic cables, sheathing or metallic components
- ✓ Contributes to Green Building
- ✓ Joint movement capability of +/- 25%
- ✓ Highly flexible and waterproof
- ✓ Resists fungi and vermin
- ✓ Life expectancy of over 30 years

SPECIFICATION

Packaging	310ml Cartridge
Colour	White, Grey or Black
Slump	Nil at joints up to 30mm
Shrinkage	Approximately 5%
Cure Rate	3mm per day at 50% relative humidity 25°C
Shore A Hardness	16
Application Temp	+5°C to +40°C
Tack Free	20 mins at 25°C, 50% RH
Water Resistance	Waterproof when fully cured
U.V Resistance	Good
Joint Movement	25% of original joint size
Elastic Recovery	>90%
Fire Resistance	TBC
Air Permeability	600Pa EN 1026 – 100Pa 2.8/5.6m ³ /h/m ²
Classification	ISO 11600
Weathering	ISO 11431 – 250 cycles each 120mins / 102mins of the cycle dry at 65°C lights at 550W/m ² over a wave length of 290-800nm / 18 minutes wet, immersion, light off. Water to be at 25°C

PERFORMANCE

All tests were carried out with the Sealant on fire side of furnace.

Joint Size Width x Depth	Backing	Joint Configuration	Integrity Rating (mins)	Insulation Rating (mins)	Linear Metres per Cartridge
6mm x 10mm	P.E. Foam	Single Seal	60	30	5.2
6mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	2.6
10mm x 10mm	P.E. Foam	Single Seal	60	30	2.6
10mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	1.55
15mm x 10mm	P.E. Foam	Single Seal	120	90	1.4
15mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	0.9
20mm x 10mm	P.E. Foam	Single Seal	120	90	0.92
20mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	0.5
25mm x 10mm	P.E. Foam	Single Seal	120	90	0.6
25mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	0.6
26-100mm x 10mm	C.B. or P.E. Foam	Dual Seal	240	240	

P.E. Foam: Closed Cell polyethylene backer rod (nominal density 35kg/m³)
 CB: Ceramic Blanket Backing

INSTALLATION

Installation details and technical support are available from Boss Technical Services Team on 1300 502 677.

1. Clean all joints free from dust, oil and grease.
2. Masking surrounding surfaces if necessary.
3. Ensure gap is filled using one of the above backing materials.
4. Fill gap to the required depth, tool off for a smooth finish.
5. Minimum depth to be 6mm.

For further information see Installation Manual.

ENVIRONMENT

BOSS Fire & Safety contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products. FireSilicone-EMA contributes to a Green Building:

- Low VOC (air quality)
- No Power Tools required for installation (no energy source required)
- Dust free
- Low Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- No water pollution
- Smoke and air tightness
- Noise reduction
- Thermal insulation
- Recycling of Packaging
- Avoidance of air filtration
- Does not emit halogenated by-products
- Contains no raw materials known to have an estrogenic effects
- The life cycle of FireSilicone-EMA is over 30 years

COMPLIANCE

FireSilicone-EMA is manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008. For fire test information please contact our Technical Services team on 1300 502 677.

CERTIFIRE No. CF514

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STORAGE & DISPOSAL

FireSilicone-EMA is not affected by an outdoor environment, it is recommended for ease of installation that the product is stored indoors, ideally in dry frost free conditions between +5°C and +30°C. For health and safety details, contact our Technical Services team on 1300 502 677.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Fire & Safety's attention relating to the fire resistance or performance of the product described, BOSS Fire & Safety reserve the right to amend this report.

BOSS Fire & Safety strive to constantly improve and develop products so this information may change without notice.

FURTHER TECHNICAL INFORMATION

For additional technical information on the performance of FireSilicone-EMA or other BOSS products please contact our Technical Services team on:

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