

FireSilicone-EMA™

Highly flexible, fire-rated silicone sealant for up to 5 hours fire protection
Approved to AS1530.4: 2014 & AS4072.1-2005



Technical Data Sheet

Edition 5

Published: December 2023



Industry leading 5 hours fire protection...

BOSS Passive Fire Pty Ltd

AU: 1300 502 677

NZ: 0800 502 677

W: bossfire.com.au

KEY BENEFITS

- Highly flexible
- Linear joints approved up to 60mm wide
- Fire resistant up to 5 hours
- Assumed working life of 25 years
- Prevention of air leakage
- Excellent acoustic isolation properties
- Approved to AS1530.4: 2014 & AS4072.1-2005



INTRODUCTION

FireSilicone-EMA™ is a fire resistant silicone sealant. It is a one-part, neutral curing silicone for construction joints and service penetrations. FireSilicone-EMA™ cures at room temperature under the action of atmospheric moisture to give a permanently silicone rubber. 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 60mm. With excellent flexibility and weatherability, it offers up to 300 minutes fire resistance.

APPLICATIONS

FireSilicone-EMA™ can be used for a variety of applications:

- Linear Gap seals
- Construction Control Joints
- Service Penetrations including:
 - Steel Copper & Iron pipes
 - Lagged Steel, Copper & Iron pipes with Thermobreak Lagging
 - Electrical cables
 - Telecommunications cables



BENEFITS

- Fire resistance testing up to 300 minutes (5 Hours)
- Linear joints up to 60mm wide
- Excellent acoustic isolation properties
- Air permeability testing to 600Pa
- Fire resistant up to 5 hours in vertical joints
- Non-slump, easy to apply and tool off
- Highly flexible +/- 25% Movement



SPECIFICATION

Packaging	310ml Cartridge
Colour	White, Grey or Black
Slump	≤ 5mm
Density	1.38 g/cm ³ nominal
Movement	+/- 25%
Storage Conditions	To be stored in dry conditions between 5°C - 30°C
Cure Rate	3mm per day at 50% relative humidity 23°C
Shore A Hardness	25 Nominal
Application Temp	Aperture needs to be 5°C or above at time of installation.
Tack Free	30 mins at 23°C, 50% RH
Elastic Recovery	≤ 80%
Fire Resistance	Up to 5 hours – Refer to Performance Specification section for detailed information

PERFORMANCE SPECIFICATIONS

FireSilicone-EMA™ is approved to AS1530.4-2014, and AS4072.1-2005 offering up to FRL -/300/300. It also carries approvals for EN1366-4.

IMPORTANT:

In order to ensure performance and compliance, passive firestopping products must be installed in accordance with the test evidence, manufacturer's specifications or be the subject of a performance solution.

Each project and/or application may have specific requirements and you should investigate these carefully.

Ensure that you read and understand the appropriate certification and how it relates to your specific construction details, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation.

Ensure your installation is carried out in accordance with the test certification, manufacturer's instructions, and in accordance with the relevant local building regulations, National Construction Code or Building Code.

For updates on the range of BOSS Fire® certification please contact BOSS Technical Services. +612 9531 8591 OR info@bossfire.com.au

BOSS FIRE SYSTEM MATRIX

For specific summary information on the approved systems relevant to FireSilicone-EMA™ please refer to the **BOSS Fire System Matrix**. The **BOSS Fire System Matrix** is a filterable summary document containing information to help select the appropriate system relevant to your building application. Associated Test and Assessment Reports are also available for download from the Resources page at bossfire.com.au/resources.

INSTALLATION

1. Ensure that the gap, aperture and/or services in question are tested with BOSS FireSilicone-EMA™ and the site conditions are within the application specification.
2. Ensure all surfaces are clean, dry and free from dust, oil or grease.
3. Use masking tape to provide straight edges around surfaces, if required for aesthetics.
4. Please refer to Performance Specification tables to determine if applicable backing rod required.
5. Cut nozzle to required bead size and apply to substrate via a caulking gun to the appropriate depth and size of seal as documented in performance specification tables. Smooth out sealant with a wet spatula within 5 minutes for professional finish.
6. Clean tools immediately after use.
7. Tack dry within 30mins, cures 3mm per 24hrs.

STORAGE & DISPOSAL

Store in cool, dry, well ventilated areas. Store in original containers between +5°C and +25°C. Storage outside these parameters will dramatically reduce shelf life and invalidates all product warranties.

HEALTH AND SAFETY

To learn more about the safe handling of FireSilicone-EMA™, see the Safety Data Sheet available at bossfire.com

IS THIS PUBLICATION CURRENT?

This document may be superseded by new versions. If you are unsure of whether or not this document is a current publication, please call us on +61 2 9531 8591 to confirm.

LIMITATION

BOSS Passive Fire 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 Passive Fire's attention relating to the fire resistance or performance of the product described BOSS Passive Fire reserve the right to amend this report.

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

The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification please contact BOSS Technical Services on +61 2 9531 8591.

FURTHER INFORMATION

For additional technical information on the performance of BOSS FireSilicone-EMA™, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

AU:

1300 502 677

Bossfire.com.au**NZ:**

0800 502 677

Bossfire.co.nz**Admin:**

+612 9531 8591

info@bossfire.com.au

Unit 1, 16 Atkinson Rd Taren Point NSW 2229 AUSTRALIA