

FIRE RESISTANT, HIGHLY FLEXIBLE, SEISMIC COATING



TECHNICAL DATA SHEET

FlexiCoat-MAK®

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Fire resistant, highly flexible, water-based, ablative acrylic coating fire rated to -/240/180 with FlexiBatt™.



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KEY BENEFITS

- Highly flexible penetration seal
- 50% movement once cured
- Provides up to a -/240/180 FRL
- Fire Resistance testing up to 4 hours integrity
- Certificate 3rd Party Accreditation
- Acoustic Isolation to 51dB
- Air Permeability testing to 600Pa

1. INTRODUCTION

FlexiCoat-MAK® has been developed for use with BOSS FlexiBatt™, a flexible rockwool based product. Once the **FlexiCoat-MAK**® is applied it prevents the passage of fire, smoke & sound between fire rated compartments giving a fire resistance of up to FRL -/240/180. **FlexiCoat-MAK**® has also achieved 600Pa air and 450Pa water permeability resistance. It can be installed into voids/ cavities up to 500mm wide.

FlexiCoat-MAK® is a water-based elastomeric acrylic coating, having excellent fire, water, air permeability and elastomeric properties offering up to 50% movement. Ideal for spray, trowel, brush and pouring applications. **FlexiCoat-MAK**® should be used in conjunction with BOSS FlexiBatt™. At normal temperatures, **FlexiCoat-MAK**® remains highly flexible to permit thermal and mechanical movement of services and the building structure. The product is unaffected by oil, fungus & contains no halogens or asbestos & offers low VOC's.



2. ADVANTAGES

- Fire resistance testing up to to -/240/180
- Certified 3rd Party Accreditation
- Acoustic Isolation to 51dB
- Air Permeability testing to 600Pa
- VOC Tested ASTM D2369-10, LEED 2009- EQ041 SCAQMD
- Tested with Metallic Pipes, Cable, Cable Bunches, Cable Trays and Cable Ladders
- Causes no known effects to plastic pipess, plasatic cables, shething or metllic components
- Contributes to Green Building
- Joint movement capability of 50%
- Dyanmic movement testing 500 cycles per 30 minutes
- Highly flexible and water resistant
- Halogen free, resists fungi and vermin
- Can be brush, pour or trowel applied
- Install on base of FlexiBatt™

3. PHYSICAL SPECIFICATION

Description	Water based flexible acrylic coating
Colour	White
Specific Gravity	1.2 – 1.35 g/cm ³
Cure Rate	0.5mm per day at 50% relative humidity 23°C
Tack Free	6hrs at 23°C, 50% RH
Application Temperature	+0°C to +30°C
Coating Thickness	2.5mm Nominal, wet coating thickness
Coverage	2.8kg/m ² , 2.24L/m ²
Fire Resistance	Up to -/240/180 with FlexiBatt™
Insulation	Up to 180mins with FlexiBatt™
Air Permeability	600Pa – 100Pa 0.4/1.5 m ³ /h/m ²

4. PERFORMANCE SPECIFICATIONS

FlexiCoat-MAK® with FlexiBatt™ has extensive fire test approvals including AS1530.4-2014 and AS4072.1-2005 offering up to FRL -/240/180



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. **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040 **Email:** info@bossfire.com

5. BOSS FIRE SYSTEM MATRIX

For specific summary information on the approved systems relevant to **FlexiCoat-MAK®™ & FlexiBatt™™** 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/resources.

6. INSTALLATION

Installation details and technical supports are available from Boss Fire Technical Team on 1300 502 677

1. Use rubber gloves and eye protection to avoid skin and eye contact.
2. Apply FlexiBatt™ to opening, 100mm thick.
3. Apply FlexiCoat-MAK® via spray, brush, pour or trowel application.
4. If over 250mm wide install a bracket
5. Maintain record of installation

BOSS Fire Technical Team on **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040.

7. COMPLIANCE

FlexiCoat-MAK® is manufactured in the EU, meeting the highest quality standard in compliance to ISO EN 9001.

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8. STORAGE AND DISPOSAL

For long term storage and ease of installation it is recommended that it should be stored indoors, in dry conditions. Storage temperature between -50CC and +250C. BOSS Fire Technical Team on **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040.

9. ENVIRONMENT

FlexiCoat-MAK® contributes to a Green Building:

- Low VOC (air quality) and Dust free
- No Power Tools required for installation (no energy source required)
- Low Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- No water pollution
- Water Tightness, Smoke and Air Tightness
- Noise Reduction and Thermal Insulation
- Avoidance of Air Filtration
- Recycling of Packaging
- Contains no raw materials known to have an estrogenic effect.
- The life cycle of FlexiCoat-MAK® is over 25 years

10. APPLICATIONS

BOSS FlexiBatt™ and FlexiCoat-MAK® is suitable for use in any building which needs compartmentalisation in form of fire rated cavity barriers, liner gaps seals or services penetrating fire rated compartment walls and floors.

Typical installations are:

- Linear Gaps Seals
- Cavity Barriers
- Cable Penetrations
- Pipe Penetrations

11. DYNAMIC MOVEMENT TEST

FlexiCoat-MAK® has undertaken dynamic to movement tests in excess of 500 per 30 dynamic mins cycles extending to 150mm and compressing to 80mm.

FlexiCoat-MAK® extended to 150mm



After 1000 cycles there was no visible or physical deterioration of the FlexiCoat-MAK®.

FlexiCoat-MAK® compressed to 80mm



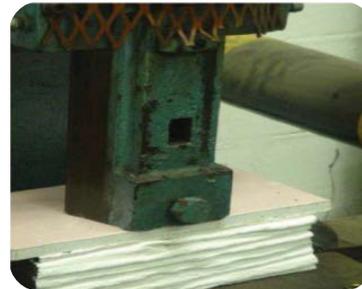
FlexiCoat-MAK®@ 2.5mm WFT cured on elastomeric substrate to perform tests.

FlexiCoat-MAK® compressed to >100mm



FlexiCoat-MAK® under 7 tonne load pressure allowing compression to less than 80mm.

FlexiCoat-MAK® compressed to <80mm



12. HEALTH AND SAFETY

To learn more about the safe handling of **FlexiCoat-MAK**® see the Safety Data Sheet available at bossfire.com

13. 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 contact us. **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040 **Email:** info@bossfire.com

14. 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. **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040 **Email:** info@bossfire.com



Further Information

For additional technical information on the performance of **FlexiCoat-MAK**[®], other **BOSS Fire**[®] products or any other BOSS Fire[®] related information please contact us on:



AU: 1300 502 677
NZ: 0800 502 677



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