



Flexi Coat-MAK

Fire resistant, highly flexible, water-based, ablative acrylic coating
Ideal for seismic, slumping or flexible applications
Fire rated to -/120/120



Installation Guide

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INTRODUCTION



The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of linear joints, slab edge and penetration applications using the **Flexi Coat-MAK** system.

All linear joints and slab edge applications through compartments must be fire stopped to prevent the passage of fire, heat transfer, smoke, hot gases and allow mechanical movement of the structure.

The result of this work will:

- Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.
- Allow for mechanical movement of the structure.
- Maintain the integrity of escape routes from the building.
- Reduce loss or damage to a property from the effect of fire and smoke.
- Maintain pressure differential between compartments and ventilation channels.

TOOLS AND EQUIPMENT

1. Steel Tape Measure – 2 metre minimum
2. Carpenters Pencil and Straight Edge
3. All Purpose Saw
4. Hand Brush and Dust Pan
5. Bread Knife
6. Plastic Sheeting
7. Pointing Trowel
8. Pallet Knife

TRAINING

All operatives to be engaged in the installation of **Flexi Coat-MAK** must have received relevant training from Boss Fire Technical Team and be certified accordingly. All installation work must be carried out in accordance with the guidelines laid down in this document.

The training is provided by Boss Fire Technical Team to ensure the correct installation procedures are followed to the approved **Flexi Coat-MAK** specification and to maintain a high standard of workmanship and quality.

PREPARATION FOR INSTALLATION

Remove all unnecessary combustible materials from the opening. Using a dust pan and brush, sweep all loose products from the inner surface of the opening and surrounding area to the installation.

Place a plastic sheet beneath the working area to catch any falling materials.

ADDITIONAL MECHANICAL SUPPORTS

390 x 25 x 1mm Galvanised or Stainless Steel brackets, if required.

TYPE OF SEAL AND SIZE

The suitability of the **Flexi Coat –MAK** is governed by the recommendations available from the fire test carried out by the independent fire test authority and in house indicative testing. The following are the maximum sizes of openings suitable for the **Flexi Coat-MAK**.

TYPE OF SEAL AND SIZE CONTINUES

Allowed Seal Sizes

Joint Type	Substrate Type	Deflection	Installation	Maximum Joint Width
Static	Concrete, or concrete to stone / marble cladding	+/- 5%	Rockwool cut to joint size +10mm over size	250mm (500mm with brackets)
Movement	Concrete to composite / metal cladding / curtain wall	+/- 20%	Rockwool cut to joint size + 20% and installed under compression	250mm (500mm with brackets)
Excessive Movement	Any substrate that is deemed to require excessive movement	>+/- 20%	Rockwool cut to joint size + 20% and installed under compression. Brackets installed 2 per cut section up to a maximum of 1200mm length or part of i.e. if 2000mm section installed 4 x brackets to be installed at equal distances, commencing at 225mm from each start point	500mm

Seal Types / Rating

- Fire Resistance testing to -/120/120
- Acoustic reduction up to 52dB
- Air Permeability 600Pa
- Water Permeability 450Pa
- Considerations to achieve the above ratings are sufficient slab thickness to accept the thickness of the seal and substrate types

INSTALLATION

1. Measure the size of the opening.
2. Add 10mm to the measured dimensions (length, width) and draw the details onto the rockwool. The rockwool should be cut over size to ensure a friction fit into void. Cut the required section of the rockwool using a saw or bread knife. The rockwool should be a minimum of 100mm thick and have a minimum density of 80kg/m³.
3. Place the rockwool into the void ensuring a good friction fit. The top surface of the rockwool should lie 2.5mm below the level of the substrate.
4. Install brackets, 2 per 1200mm if required over a gap size of 250mm.
5. Overlap the substrate by 20mm if a movement seal is required.
6. Using a spray system (tip size 30 thou) or pour and level with trowel a layer Flexi Coat-MAK, to achieve a wet coating thickness of 2.5mm. 3.125kg/m² 2.5lt/m².
7. The coating should be applied to a consistent thickness and to edges of the surrounding substrate. Once completely installed the finished application of coating should lie level with the supporting substrate.
8. The **Flexi Coat-MAK** only requires to be applied to the upper surface of the seal.

HEALTH AND SAFETY

To learn more about the safe handling of **Flexi Coat-MAK**, see the Material Safety Data Sheet available at www.bossfire.com.au.

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 **Flexi Coat-MAK** or other BOSS products please contact our Technical Services team on:

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