

# MADA FIRE GUARD FIRE AND ACOUSTIC SILICONE SEALANT

## Technical Data Sheet

TDS-ACC-R03-Rev1 Fire Guard Silicone Sealant - June 2022



### Advantage



Fire Resistant



Prevents Sound Flanking  
Low VOC



Non-Cracking  
& Paintable



Anti-Fungal,  
Anti-Bacterial  
& Algal Resistant

### Product Description

Mada Fire Guard - Fire and Acoustic Silicone Sealant is a single component, neutral cure, gun-grade fire stopping sealant. It is an elastomeric, high performance sealant capable of meeting the joint movement requirements in a fire-rated joints.



## TECHNICAL DATA SHEET

### Technical Specification

Properties	Applicable standard	Unit	Specifications
Chemical Base	-	-	1-C Silicone
Cure Mechanism	-	-	Moisture
Cure Type	-	-	Neutral
Joint Movement	ASTM C 719	%	±50
<b>As Supplied @ 25°C, 50% RH</b>			
Color	-	-	Black, Grey, White
Consistency	-	-	Homogeneous paste
Specific Gravity	ASTM D 1475	-	1.18 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 6
Tack Free Time	ASTM C 679	minutes	Approx.12
Depth Cure, 24 hrs	Lab Test	mm	~ 2.4
<b>As Cured* – 7 Days @ 25°C, 50% RH</b>			
Hardness (Shore A)	ASTM D 2240	Points	30 – 35
Tensile Strength	ASTM D 412	N/mm <sup>2</sup>	≤ 0.50
Elongation	ASTM D 412	%	≤ 500
Young's Modulus	ASTM D 412	MPa	≤ 0.30
Service Temp.	-	°C	-25 to +200

Note:

\* Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application.

\* Information on this data sheet is subject to change without prior notice and should not be used for writing specifications.

### Product Characteristics

- Mada Fire Guard - Fire and Acoustic Silicone Sealant has been developed for small penetration seal applications where it should be used in conjunction with specified backing materials.
- Mada Fire Guard - Fire and Acoustic Silicone Sealant is available in black, white and grey color. Special color orders may require longer lead time and minimum order quantities.
- Mada Fire Guard - Fire and Acoustic Silicone Sealant is available in standard caulking cartridges (280ml), packed sausages (600ml) and 200 Liter drum.
- Fire Rated Drywall Partitions :  
Mada Fire Guard - Fire and Acoustic Silicone Sealant is an Integral component in Mada Plus Fire Rated System. Tested in accordance to ASTM E119 - 45 Minutes to 4 Hours.
- Mada Fire Guard - Fire and Acoustic Silicone Sealant is non corrosive, excellent weather and UV resistance, excellent unprimed adhesion, low VOC and meets EN1366-4:2006 + A1:2001.
- Acoustic Rated Drywall Partitions :  
Mada Fire Guard - Fire and Acoustic Silicone Sealant is an Integral component in Mada Plus Acoustic Rated System. Tested in accordance to ASTM E90 & ASTM 413 - STC-40 to STC-79.
- Mada Fire Guard - Fire and Acoustic Silicone Sealant is suitable for application in medical environment due to anti-microbial properties to inhibit the growth of mold & mildew. Tested in accordance to BS ISO 22196 : 2007. Fungal & Algal Resistance tested In accordance to TISI 2321.
- The product should not be used for purposes other than those shown on the Mada Technical Proposal.



## TECHNICAL DATA SHEET

### Applications

#### Surface Preparation

The substrate areas that will be in contact with sealant must be clean, dry and free of all loose materials, dust, dirt, rust, oil and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with clean cloth before the solvent evaporates from the surface.

#### Application Instructions

Cut nozzle to desired bead size. Insert cartridge into standard caulking gun. For a smooth seal, hold at 45° angle and apply by pushing sealant ahead of nozzle. Apply at temperatures between 5°C to 45°C to ensure good adhesion. Ensure that Mada Fire Guard - Fire and Acoustic Silicone Sealant makes complete contact with the entire surface of the opening and also the surface of the penetrating items. Always follow cartridge directions. For large openings, mineral wool fibers can be used as a backer to help hold the product in place until cured. Steel screen wire can be stapled in place over the material when a large opening is overhead or configured such that the material will not support its own weight during cure.

Install backing material, spacer or joint filler to ensure correct depth to width ratio is achieved according to design. Apply masking tapes to areas adjacent to joints to ensure neat sealant lines.

#### Tooling and Finishing

Mada Fire Guard - Fire and Acoustic Silicone Sealant should only be used where slight joint movement is anticipated. For extremely deep joints, use backing material to fill. Tool sealant after application and before tack-free skin formation. Tooling of sealant should be done in one continuous stroke. Use masking tape adjacent to joint to obtain a cleaner joint. Remove masking tape immediately after tooling.

#### Temperature Range

Mada Fire Guard - Fire and Acoustic Silicone Sealant freezes in the cartridges at temperature below 0°C. The product can be warmed and applied at any temperature but will not cure below 5°C. Freeze-thaw cycles do not alter the cured product. Cure time may exceed 72 hours at non-freezing temperature.

#### Cleanup and Removal

Excess caulk should be cleaned off tools and non-porous surfaces while it is in the uncured state using a wet cloth. Cured sealant can only be removed mechanically.

#### Paintability

A minimum of 2 hours dry time is required before painting with latex or oil- based paint. Allow extra dry time during periods of high humidity.

### Handling and Storage

- When stored in original unopened container at or below 25°C in dry warehouse conditions, Mada Fire Guard - Fire and Acoustic Silicone Sealant has a shelf life of 24 months from manufacturing date. Containers should always be kept sealed when not in use.
- Use in well-ventilated area. Direct contact of uncured sealant may irritate eyes and skin. Over exposure to vapor may irritate eyes, nose and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.