

Code	Description	Size	Colour
56219	Gorilla Firestop MS FR	600ml	Grey

1. Description

Gorilla Firestop MS is a high-quality, fire-resistant, smoke-tight, neutral, elastic, one component joint and adhesive sealant based MP Polymer.

2. Characteristics

- High performance mechanical properties
- Flexible elastic polymer
- No bubble **formation within sealant** (in high temperature and humidity applications)
- Primerless adhesion on many substrates (except where water pressure may occur)
- Colour **stability and UV** resistant
- Minimal health and safety considerations
- Over-paintable **with all water based and many other systems**
- **Excellent weather resistance** in all climates
- **Does not contain isocyanates, solvents or halogens**

3. Technical Data

Base:	SMX Technology™
Consistency:	Stable paste
Curing System:	Moisture cure
Skin Formation (*): (20°C/50% R.V.)	Ca. 10 min.
Curing Rate (*): (20°C/50% R.V.)	2mm/24h
Hardness (DIN 53505):	20+5 Shore A
Specific Gravity (DIN 53479):	1,57g/mL
Maximum Deformation:	+25%
Temperature resistance:	-40°C to +90°C
Application Temperature:	5°C to +30°C
Elasticity modulus 100%: (DIN 53504)	0.33N/mm ²
Max. Tension: (DIN 53504)	0,82 N/mm ²
Elongation at break: (DIN 53504)	430%
Fire Resistance: (EN 13501-2)**	<= 240 min
VOC (%)	< 2%
VOC (g/litre)	28

* This can vary according to environmental circumstances such as temperature, humidity, substrate, etc.

** this value is dependent on the joint- or penetration seal configuration and joint- or penetration seal dimensions

4. Applications

- Fire retardant expansion and connection joints in the construction industry.
- Fire resistant sealing of connection joints.
- Sealing of fire retardant joints in prefabricated buildings
- Movement joints in high rise constructions

5. Packaging

Sausage 600ml (net content)

6. Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

7. Application Instructions

Surfaces

Substrates: All usual building substrates, treated, PVC,
Preparation: Clean, dry, free of dust and grease
Gorilla Firestop MS will stick to damp surfaces – a surface is considered wet when moisture transfer occurs from the substrate. Porous surfaces should be primed with Gorilla Primer 150 and Gorilla 696 Surface Activator may be used on non-porous surfaces.

Due to the range of substrates on the market recommend preliminary compatibility tests prior to commencement of application.

Joint Size

Minimum Width: 5mm
Maximum Width: 30mm
Minimum Depth: 5mm
Recommendation: 2 x depth = width

Application

Method: Manual or pneumatic caulking gun
Application temperature: +1°C to +30°C
Clean: Gorilla Solvent Cleaner or 696 Surface Activator immediately after application and before curing
Tooling: Soapy solution before skin formation
Repair: Gorilla Firestop MS

Resistance to chemical agents

Good resistance to: water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis
Poor resistance to: aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Limitations

- Gorilla Firestop MS may be over-painted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Manual or pneumatic caulking gun
- Gorilla Firestop MS cannot be used as a glazing sealant.
- Gorilla Firestop MS is not suitable against the following materials; PE, PP, PTFE (Teflon), Bituminous substrates, Copper or copper containing materials (Copper, Brass, Zinc-Bronze).

Approvals

- General: EN 1366-4 – Test Report 9297, University of Ghent
- General: EN 1366-4 – Test Report 13492, University of Ghent/ Warrington Fire
- UK: BS476:Part20:1987 – WRFC N° C113610
- UK: BS476:Part20:1987 – WRFC N° 139271
- France: Rapport d'Essai RS03-007
- Holland: NEN 6069:1997 – TNO Rapport 2000-CVB-R00703
- Belgium: NBN 713.020 – Test Report 9297 – University of Ghent
- Australia: WFRA 45716 § 45717 to AS1530.4 and AS4072.1
- CSTB France report no RS03-007A, thermal isolation of 270 minutes in 30 mm joint and 240 minutes in 10 mm joint.
- ODICE – ISO R834 at least 2 hours (10 and 30 mm joints)
- Italy: R.E.I. CSI 1125RF: 180 min (10mm joint in 100 mm wall thickness)

Test Results

Wall / Width x Depth	Backing Material	Integrity	Heat Insulation	Tests Done in
150mm / 30mm x 20mm PC	PU	332min	270min 30 sec	2003 CSTB France
150mm / 10mm x 10mm PC	PU	> 360min	240min (thermocouple failure)	2003 CSTB France
200mm / 10mm x 10mm PC	PU	> 360min	> 360min	2003 CSTB France
100mm / 10mm x 10mm CC	PE	> 180min	> 180min	2004 CSI Italy
200mm / 15mm x 15mm CC	PE	> 240min	> 240min	2008 Ghent Joint C
200mm / 30mm x 20mm CC	PE	> 240min	> 240min	2008 Ghent Joint H

Test Results: Test Report 13492A - University of Ghent 2008 Product Combinations – Vertical Joints

Product Tested	Wall Thickness	Joint Dimension	Backing Material	Flame Resistance in Minutes
a.Firecyl (20060, 21427) b. Gorilla® Nailpower® FR Click&Fix (20160, 20169)	200mm	a.Width: 25mm Depth: 25mm b.Width:25mm Depth: 175mm	None	>240 Minutes
a.FixAll Firestop MS (56129) b. Gorilla® Nailpower® FR Click&Fix (20160, 20169) c. Firecyl (20060, 21427)	200mm	a.Width: 40mm Depth: 20 mm b.Width: 40mm Depth: 150 mm c.Width: 40mm Depth: 30 mm	None	>240 Minutes

8. Maintenance and Inspection of Weather-Tightness Sealant Joints

Applies to the following joint types:

- Linear joints
- Penetration seals

Inspection

Soudal recommends that the first inspection of joints is done 6 months following application, followed by an annual inspection. Normally this inspection is combined with the inspection of the painting. The most effective is to judge the joints during a colder season as building materials shrink the most under low temperatures, resulting in the widest joints. This period is best to judge if the sealants are still able to cope with the pressure, and if detachments appear.

During inspection specifically pay attention to:

Detachments in facades of buildings can result into leakage. When leakage is noticed but the exact cause and location is unclear, the exact spot should be found by testing. We have two methods for this test:

- Test with a (garden) hose. With a hose the facade can be sprayed. While doing this we work downward towards above, while the inside is checked on water entering the building. When no leakage is found this way, the possibility exists the leakage will only appear when rain and wind pressure are combined at the same moment.
Wind pressure causes over pressure on the outside while under pressure on the inside appears. This can cause water to be sucked inside through very small openings. With higher building the water can be pushed up and find its way into buildings.
- Test with a smoke pipe. With a smoke pipe possible leakages can be identified more easily, especially when wind pressure occurs.

9. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- For more detailed information, please refer to the SDS.

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email sales@soudal.co.nz.***

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