

Code	Description	Size	Colour
20169	Gorilla Fire Rated Expanding Foam Aerosol	750ml	Light Red

1. Description

Gorilla Fire Rated Expanding Foam is a one-component, self-expanding, ready to use polyurethane foam. It contains propellants, which are completely harmless to the ozone layer. It has a fire rating of up to 360 minutes on linear joint applications. (Ghent test report 9279).

Gorilla Fire Rated Expanding Foam will not react with electrical cabling. See statement of suitability for more information : http://www.holdfast.co.nz/resources/pdf/products/20160_Statement_Of_Suitability.pdf

2. Characteristics

- Fire retardant up to 360 minutes on linear joint applications
- Efficient seal against smoke and gas
- Excellent adhesion on most substrates (exempt Teflon, PE and PP)
- High thermal and acoustical insulation
- High bond strength
- Very good filling characteristics
- Excellent stability: No shrink or post expansion
- Can be painted after full cure

3. Technical Data

Colour:	Light red
Base:	Polyurethane
Consistency:	Stable Foam, Thixotropic
Curing System:	Moisture-cure
Skin Formation:	9-10 minutes
Cutting Time:	90 minutes
Density:	Ca. 25kg/m ³
Sound Insulation:	62 dB
Box Yield:	750ml yields ca. 30l of foam
Joint Yield:	750ml yields ca. 21m of foam
Shrinkage after Curing:	<6%
Post – Expansion:	<1%
Compressive Strength:	Ca. 104 kPa
Shear Strenggth:	Ca.43 kPa
Cellular Structure:	Ca. 70% closed cells
Temperature Resistance:	-40°C till +90°C (cured)

**This varies according to ambient conditions such as temperature, humidity, substrate etc*

H1 insulation R-Value Calculations based on thickness of Gorilla Expanding Foam Range

Product	mW/m. K (TDS)	Thickness mm									
		50	60	70	80	90	100	125	140	200	220
Gorilla PRO Expanding Foam Aerosol	29.70	1.68	2.02	2.36	2.69	3.03	3.37	4.21	4.71	6.73	7.41
Gorilla PRO Expanding Foam "CnF"	32.00	1.56	1.88	2.19	2.50	2.81	3.13	3.91	4.38	6.25	6.88
Gorilla FLEXI Expanding Foam	35.00	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29
Gorilla SMART Expanding Foam	37.00	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Gorilla MS Foam	37.00	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Gorilla FR Expanding Foam	30.20	1.66	1.99	2.32	2.65	2.98	3.31	4.14	4.64	6.62	7.28
Gorilla FR Expanding Foam Aerosol	34.00	1.47	1.76	2.06	2.35	2.65	2.94	3.68	4.12	5.88	6.47
Gorilla One Shot Foam	35.40	1.41	1.69	1.98	2.26	2.54	2.82	3.53	3.95	5.65	6.21

4. Applications

- Fire retardant installation of window and door frames
- Fire and smoke retardant sealing of connections between partition walls, ceilings and floors
- Filling of cavities
- Sealing of all openings in roof constructions
- Sealing of cable and pipe penetrations
- Creating of sound-proof screen
- Bonding of insulation materials
- Application of sound deadening layers
- Improving thermal insulation in cold store areas

5. Packaging

Aerosol can 750ml (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

Method:

- Ensure surface is clean, free of dust and grease.
- Application temperature +5°C until +30°C
- Shake aerosol can well before use (at least 20 seconds).
- A compatibility test to ensure desired outcome is obtained.
- Fit the applicator onto the valve, hold can upside down for extruding.
- Moisten surfaces with a water sprayer prior application to achieve the optimal performance with regards to elasticity, noise reduction and cellular structure.
- Extrude foam by pulling the trigger.
- Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer.
- Once extruding has stopped and foam has cured in applicator, can will not extrude further.
- Cured foam can only be removed mechanically.

Remarks

- Work in layers and repeat moistening after each layer.
- Cured PU-foam must be protected from UV-radiation by painting or applying a top layer of sealant (silicone, MS Polymer, acrylic and PU-sealant)
- As some timber treatments contain wax it is recommended that the surface of these timbers is activated with Gorilla 696 Surface Activator before application of adhesive.

Cable Penetrations – refer to appropriate test report for the penetration type.

Cable penetrations – fill complete cavity with Gorilla FR Expanding Foam. Once cured rebate back 15mm of cured Gorilla Firestop and overfill with #20060/21427 Gorilla Firecyl intumescent gap filler.

Approvals

to AS1530.4 and AS4072.1

- EWFA Report No. 23751-02
- EWFA Report No. 45717-02
- BRANZ Report: FAR 2005
- BRANZ Report: FAR 2330 Penetrations and closures in fire rated wall systems
- Various applications with fire doors

Linier Joints – Vertical & Horizontal – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	30	200	None	Both Faces	-/120/120
200	10	200	None	Both Faces	-/240/240

Linier Joints – Vertical – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	11	200	None	Both Faces	-/180/180
200	41	200	None	Both Faces	-/90/90
100	11	100	None	Both Faces	-/90/90

8. Health and Safety Recommendation

- Apply the usual industrial hygiene
- Wear gloves and safety goggles
- Remove cured foam by mechanical means only, never burn away
- Please refer to the SDS for more detailed information

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 info@soudal.co.nz.**

Last Updated: 13 June 2022

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