

| Code  | Description                | Size  | Colour    |
|-------|----------------------------|-------|-----------|
| 20050 | Gorilla Pro Expanding Foam | 400ml | Champagne |
| 20048 | Gorilla Pro Expanding Foam | 750ml | Champagne |

## 1. Description

Gorilla Pro Expanding Foam is a one-component, self expanding, ready to use polyurethane foam. CFC Free Propellants.

## 2. Characteristics

- Excellent adhesion on most materials (except PE/PP)
- High thermal and acoustical isolation
- Very good filling capacity
- Excellent bonding and installing capacity
- 15% more yield
- 50% less propellant
- Excellent mounting ability
- Remains waterproof providing the integrity of the skin is maintained of the cured foam
- Draft Proof and Pest Resistant (Note: Rodents and persistent boring pests may over time make their way through the product)

## 3. Technical Data

|  |                             |
|--|-----------------------------|
| <b>Basis:</b>                              | Polyurethane                |
| <b>Consistency:</b>                        | Stable foam, thixotropic    |
| <b>Curing System:</b>                      | Moisture curing             |
| <b>Skin Formation:</b>                     | 8 minutes                   |
| <b>Cutting Time:</b>                       | 30 minutes                  |
| <b>Density:</b>                            | Ca. 29 kg/m <sup>3</sup>    |
| <b>Acoustic Insulation: (EN ISO 717-1)</b> | 58 dB                       |
| <b>Insulation Factor: (FECIA TM 1020)</b>  | 29,7 mW/m.K                 |
| <b>Curing Time:</b>                        | 90 minutes for a 30mm bead  |
| <b>Box Yield:</b>                          | 750ml yields ca 27l of foam |
| <b>Shrinkage:</b>                          | <2%                         |
| <b>Post - expansion:</b>                   | <2%                         |
| <b>Cellular Structure:</b>                 | Ca. 70% closed cells        |
| <b>Fire Rating:</b>                        | No fire classification      |
| <b>Compressive Strength:</b>               | Ca. 21 kPa                  |
| <b>Shear Strength:</b>                     | Ca. 55 kPa                  |
| <b>Water Absorption:</b>                   | 0,27 kg/m <sup>2</sup>      |
| <b>Temperature Resistance:</b>             | -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.<br>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

- Mounting and sealing of windows and doorframes
- Filling of cavities around pipes
- Connecting of isolation materials and roof constructions
- Application of a soundproofing layer on motors
- Improving thermal isolation in cooling systems
- Adhering to many porous substrates e.g. concrete, wallboard, particleboard flooring, & timber

### 5. Packaging

400ml Aerosol canister (net)  
750ml Aerosol canister (net)

### 6. Shelf Life

15 months in unopened packaging in a dry and cool storage place. Upright storage is recommended.

### 7. Building Product Information

**Manufactured By** Soudal NV  
**Distributed By** Soudal Ltd

#### Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

#### Contribution to compliance With NZBC

Performance B2.3.1 (b): Assessment of durability to meet the NZBC is based on difficulty of access and replacement of the air seal, and the ability to detect failure of the air seal both during normal use and maintenance of the building when used as Air-seals (i.e. in dry, interior environments where the product is inaccessible, and completely sheltered from exposure to sunlight, chemicals, solvents and temperature extremes), they will remain serviceable for at least 15 years.

Performance E2.3.2: Complying with the requirements of NZBC Acceptable Solution E2/AS1 when installed in accordance with the design. Soudal maintains manufacturing and production records within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1999.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's product installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Technical Data sheet and product Safety Data Sheet, [soudal.co.nz](http://soudal.co.nz) for further information if required.

## 8. Application Instructions

### Surfaces

Type: Various porous surfaces such as wood, concrete, stone and other materials commonly used in construction.  
Not suitable for polyethylene and polypropylene

State: Clean, dry, free of grease and loose particles.

### Application

Method: Aerosol can, shake thoroughly before application

Application temperature: 5°C to +30°C

Clean: Gorilla Expanding Foam Cleaner before curing

Repair: Gorilla Pro Expanding Foam

### Pre-treatment:

Moisture in the air or the substrates will cure the adhesive, which will foam slightly. Slightly moistening the substrates will speed up the cure and increase the filling properties of the adhesive. Adhesion to metal batons is determined by surface preparation. An initial wipe with Gorilla 696 Surface Activator is required.

### Limitations

- Gorilla Pro Expanding Foam can be applied to a wide variety of substrates. Due to the fact that specific substrates may differ from Supplier to Supplier, Holdfast recommends preliminary compatibility tests.
- Gorilla Pro Expanding Foam is not UV-Resistant.

### Remarks:

- Always moisten surfaces in order to improve curing and cellular structure
- Cured Gorilla Pro Expanding Foam must be protected from UV-radiation by painting or applying a top layer of sealants (silicone, MS Polymer, etc)
- For the filling of large volumes apply product in layers and moisten between each layer
- Always store canister with the valve pointed upwards

*Soudal recommends preliminary compatibility tests on surfaces on which PU Foams have not been applied previously.*

## 9. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- Wear gloves and safety goggles.

### 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](mailto:info@soudal.co.nz).***

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