

GORILLA® NAILPOWER FLEXI EXPANDING FOAM CLICK & FIX DATA SHEET

Product Code: 20041 (750ml)
Product Name: GORILLA® Nailpower FLEXI Expanding Foam Click&Fix

Description

GORILLA® Nailpower FLEXI Expanding Foam Click&Fix is a one-component, self-expanding, ready to use polyurethane foam. Fitted with a patented Click & Fix adaptor for use only with Holdfast applicator gun code 19960.

Characteristics

- ✓ High thermal and acoustic insulation
- ✓ High elasticity recovery accommodates movement
- ✓ Minimal post expansion
- ✓ CFC free propellants
- ✓ Excellent adhesion to most substrates (check exceptions)
- ✓ Can be compressed
- ✓ Stable with good gap filling abilities
- ✓ Colour – Blue



Technical Data

<i>Base:</i>	Polyurethane
<i>Consistency:</i>	Stable foam, thixotropic
<i>Curing system:</i>	Moisture cure
<i>Skin formation (20°C/65% R.H.):</i>	Ca. 6 minutes
<i>Drying time (20°C/65% R.H.):</i>	Dust free after 20-25 min.
<i>Curing rate (20°C/65% R.H.):</i>	Ca 60 min for a 30mm bead
<i>Character of foam:</i>	Thixotropic, does not slump
<i>Foam yield:</i>	750 ml yields 30L cured foam
<i>Shrinkage:</i>	Very limited
<i>Post expansion:</i>	Very limited
<i>Cellular structure:</i>	Fine cellular structure
<i>Specific gravity:</i>	Ca. 25kg/m ³ (extruded, fully cured)
<i>Temperature resistance:</i>	-40°C to +90°C when cured – for upto 60min: 120°C
<i>Colour:</i>	Blue
<i>Acoustic Rating:</i>	60dB
<i>Insulation Factor:</i>	35 mW /m.K R Value 2.8 (Foam 100mm thick)
<i>Fire class (DIN 4102 part 2):</i>	B2 (DIN 4102 part 2)
<i>Pressure strength (DIN 53421):</i>	0.5N/cm ² (DIN 53421)
<i>Shear strength (DIN 53427):</i>	3.0 N/cm ² (DIN 53427)
<i>Elastic Recovery (ISO 1856):</i>	Until 92% (75% compressed)
<i>Elongation at break (DIN 18540):</i>	Ca. 30%
<i>Maximum force at break (DIN 18540):</i>	5.0 N/cm ²
<i>Air Penetration (DIN 18542):</i>	A<0.1m ³ /[h.m.(daPa) ^{2/3}]
<i>Vapour permeability(DIN EN ISO 12572)</i>	Water diffusion resistance μ = 20
<i>Water Absorption:</i>	1% Vol.
<i>Permanent deformation at pressure (ISO 1856) – 50% compression 22h 1 day recovery</i>	Ca 6%
<i>Change of Volume (DIN EN ISO 10563)</i>	<5%

* Values may change slightly due to temperature, humidity, surface and way of application.

Applications

- ✓ For joints where thermal or acoustic insulation is required
- ✓ Installation and sealing of door and window frames
- ✓ Impact and shock dampening
- ✓ Filling of cavities eg, around pipe penetrations
- ✓ Sealing and connecting of insulation material
- ✓ Excellent adhesion to many porous substrates

Shelf Life

18 months in unopened packaging in a cool dry storage place at temperatures between +5°C and +25°C.
Always store can with valve pointed upwards.

Surfaces

All substrates except PE, PP and Teflon.

Must be free of contaminants eg. dust, grease.

Moistening surfaces improves adhesion. If applying in layers moisten between applications.

Some timber treatments contain wax, resins or oils, such timbers should be cleaned using Holdfast Surface Activator 696 - available in various sizes. See www.holdfast.co.nz

Directions for Use

- Requires Holdfast Applicator Gun code 20106
- Apply in temperature range +5°C to +30°C
- Clean with Gorilla® Nailpower® Clean code 20107 before curing.
- Repair – Gorilla® Nailpower® FLEXI Foam Click & Fix
- UV - Gorilla® Nailpower® FLEXI Foam Click & Fix should be protected from UV for maximum life.

Starting off

- Take can of Gorilla® Nailpower® Flexi Foam Click & Fix
- Click can on to adapter of gun code 20106
- Release the flow adjustment screw slightly and dispense foam immediately to fill the entire gun with foam
- The Gorilla® Nailpower® Flexi Foam Click & Fix is now ready for use
- Foam output is controlled with flow adjustment screw and trigger

After Use

- Always keep a filled can of Gorilla® Nailpower® Flexi Foam Click & Fix on gun to prevent gun blockage
- Tighten the flow adjustment screw completely
- Do not empty the gun
- Store in a vertical position (gun inwards)

Repeated use

- Shake the can vigorously once a month (keep hold of the gun)
- Remove cured foam at the tip of the nozzle carefully with a small, sharp knife
- Release the flow adjustment screw lightly and dispense foam immediately until the flow of foam is correct
- The Gorilla® Nailpower® Flexi Foam Click & Fix is now ready for use
- Foam output can be controlled with flow adjustment screw and trigger

Replacing of can

- Check if the can is empty by dispensing foam in a dust-bin until no more foam is released
- Take new can of Gorilla® Nailpower® Flexi Foam Click & Fix. Shake vigorously
- Unclick the empty can (keep valve opening away from you), and replace the empty can immediately with a new one
- Dispense foam immediately to fill the gun

Cleaning at times of interruption

- Unclick the can of Gorilla® Nailpower® Flexi Foam Click & Fix (keep valve opening away from you)
- Take a can of Gorilla® Nailpower® CLEAN code 20107 and click the can on the gun
- Pull the trigger until all foam ceases expressing and only Gorilla® Nailpower® CLEAN is evident
- Unclick the can Gorilla® Nailpower® CLEAN code 20107
- Click the can Gorilla® Nailpower® Flexi Foam Click & Fix on to the Gorilla® Nailpower® Click & Fix Applicator Gun code 20106
- Pull trigger off the gun again until foam is free of Clean
- The gun is now ready for use

- Note for light use situations we recommend using Gorilla® Nailpower® Clean prior to installing new can

Health & Safety

- Apply usual industrial hygiene
- Refer to MSDS for detail

Remark

The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

If any clarification is required, please contact Holdfast Technical Services or email sales@holdfast.co.nz.

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