

Windows and Doors Genius

Revision: 15/10/2021

Page 1 from 2

Technical data

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| Basis | Polyurethane |
| Consistency | Stable foam, thixotropic |
| Curing system | Moisture curing |
| Skin Formation (EN 17333-3) | 8,5 min |
| Cutting Time (EN 17333-3) | 65 min |
| Free foamed density (EN 17333-1) | Ca. 40 kg/m ³ |
| Sound insulation (EN ISO 717-1) | 58 dB |
| Thermal conductivity (EN 17333-5) | 35,4 mW/m.K |
| Box Yield (EN 17333-1) | 500 ml yields ca. 22 l of foam 750 ml yields ca. 33 l foam |
| Joint Yield (EN 17333-1) | 500 ml yields ca. 15 m of foam |
| Shrinkage after curing (EN 17333-2) | < 5 % |
| Expansion after curing (EN 17333-2) | None |
| Expansion during curing (EN 17333-2) | Ca. 135 % |
| Percentage closed cells (ISO4590) | Ca. 70 % |
| Compressive strength (EN 17333-4) | Ca. 37 kPa |
| Shear strength (EN 17333-4) | Ca. 43 kPa |
| Tensile Strength (EN 17333-4) | Ca. 78 kPa |
| Elongation at Fmax (EN 17333-4) | Ca. 22,7 % |
| Water absorption (EN 29767) | Ca. 0,20 kg/m ² |
| Temperature resistance** | -40 °C till +90 °C (cured) |

** This information relates to fully cured product.

Product description

Windows and Doors Genius is a one-component, self-expanding, ready to use PU-foam, which contains HCFC- and CFC-free propellants who are not harmful for the ozonlayer. It has been fitted with the unique patented Genius Gun - adaptor system for maximum comfort during application.

Properties

- Excellent stability (no shrinkage or post-expansion)
- High filling capacity
- Good adhesion on all surfaces (except PE, PP and PTFE).
- High insulation value, thermal and acoustic
- Very good bonding properties.
- Freon free (not harmless to ozone layer and greenhouse effect)
- Not UV-resistant

Applications

- Installing of window and door frames.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of an acoustic baffle
- Improving thermal isolation in cooling systems.
- All foam applications in static joints.

Packaging

Colour: champagne

Packaging: 500 ml and 750 ml aerosol (net)

Shelf life

Upright storage is recommended. 12 months unopened and stored in dry and cool conditions (Between 5 and 25 °C)

Remark: This technical data sheet replaces all previous versions. 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. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Revision: 15/10/2021

Page 2 from 2

Application method

Shake the aerosol can for at least 20 seconds. Open the cover and fold the tube horizontally. Surface should be free from grease and dust. Moisten surfaces with a water sprayer prior to application. For non-conventional substrates a preliminary adhesion test is recommended. Fill holes and cavities for 1/3, as the foam will expand. Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer. Fresh foam can be removed using Soudal Gun & Foamcleaner or acetone. Prior to using the Gun & Foamcleaner, test whether surfaces are affected or not. Especially plastics and lacquer or paint layers can be sensitive to this. Cured foam can only be removed mechanically or with Soudal PU-Remover. For storage: detach the bung, close nozzle with bung, close the cap and store can upright.

Can temperature: +5 °C - 30 °C

Ambient temperature: +5 °C - 30 °C.

Surface temperature: +5 °C - 35 °C

Health- and Safety Recommendations

Take the usual labour hygiene into account. Always wear gloves and goggles. Remove cured foam mechanically. Never burn away. Consult label and material safety data sheet for more information. When vaporizing (for example with a compressor), additional security measures will be required. Use only in well ventilated areas.

Remarks

- Moisten surfaces with a water sprayer prior to application. If you have to work in layers repeat moistening after each layer. For not common surfaces we recommend an adhesion test.

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