



# Technical Data Sheet



Technical Data Sheet  
Ref: UF2000  
Issued: 19/07/2024  
Number of pages: 4

## Expanding Foam Energy Teq

### CHARACTERISTICS

UniBond Energy Teq is a one-component, moisture cure semi-rigid polyurethane foam with good open-closed cells balance and high mechanical strength. It is easily usable and applicable with attached application straw

- Foam is self-expanding and during the curing process expands about 2 times.
- It has excellent adhesion on most building materials like wood, concrete, stone, metal, etc.
- Full mechanical strength is achieved in 24 hours
- Product is manufactured, using partly recycled ingredients, which give to the foam that characteristic greyish shade.
- Up to 16% of recycled ingredients and usage of recycled plastic for various plastic parts of the packaging help to reduce the product carbon footprint.
- Excellent thermal insulation parameters and long-term stability of the applied cured PU foam help to maintain high energy saving levels of buildings, further contributing to the reduction of carbon footprint.
- Product does not contain CFC-propellants



### APPLICATIONS

**Energy Teq** can be used for:

- Filling of cavities
- Sealing the gaps around windows and doors
- Filling of openings in roof construction and insulation materials
- Creating soundproof screens
- Filling of gaps around wiring or plumbing penetrations



## TECHNICAL DATA

|  |  |
|--|--|
| Foam density<br>EN 17333-1, method 1                         | 25-31 kg/m <sup>3</sup>  |
| Tack free time<br>EN 17333-3, method 2                       | 6 – 8 min  |
| Cutting time<br>EN 17333-3, method 1                         | 50 – 65 min  |
| Curing pressure<br>EN 17333-2, method 2                      | < 12 kPa   |
| Post expansion<br>EN 17333-2, method 3                       | 100 – 170 %  |
| Dimensional stability<br>EN 17333-2, method 1                | Max ± 5 %  |
| Maximal joint width<br>EN 17333-3, method 3                  | 4 cm<br>Testing conditions: ± 5 °C   |
| Shear strength   Elongation at break<br>EN 17333-4, method 3 | 45 – 55 kPa   ca 50%   |
| Compression strength 10%<br>EN 17333-4, method 1             | 20 – 40 kPa  |
| Fire class<br>EN 13501-1                                     | E  |
| Water absorption 24h<br>EN 1609:2013                         | Not measured.<br>Approximate value max 1%  |
| Water absorption 28 day<br>EN 12087:2013                     | Not measured.<br>Approximate value max 10%   |
| Sound insulation<br>EN ISO 10140-1                           | Not measured.<br>Approximate value 60 dB might be used for calculation purposes.                 |
| Thermal conductivity<br>EN 17333-5                           | Not measured.<br>Approximate value 0,037 ... 0,040 W/m*K might be used for calculation purposes. |
| Yield per can<br>EN 17333-1, method 2                        | 750/1000 ml: max 31 L  |

## INSTRUCTIONS FOR USE

### Substrate Preparation

Substrates must be stable, clean, and free from dust, loose material, polish, grease etc. Spray water onto porous surfaces (brickwork, plaster, concrete etc.) to ensure full and even curing of the foam (do not spray non-porous substrates eg: painted woods, plastics.) If necessary, protect areas with masking tape.

### Application Temperature

- Working temperature: from +5°C to +35°C.
- Can temperature: from +5°C to +30°C.
- Can has preferably to be stored for at least 12 hours in room temperature before commencing with application.



## Application Method

- 1) Substrates must be table, clean, and free from dust, loose material, polish, grease, etc. Spray water onto porous surfaces (brickwork, plaster, concrete, etc.) to ensure full and even curing of the foam (do not spray non porous substrates, e.g. painted woods, plastics). If necessary, protect areas with masking tape.
- 2) Store can for at least 12 hours at room temperature before using. Apply between +5°C and +35°C.
- 3) Shake can vigorously before use (15-20 times.) Screw on the applicator nozzle onto the valve.
- 4) Turn can upside down and dispense foam gently by lightly pressing the trigger. Release trigger to stop flow. Fill gap by  $\frac{1}{2}$  to  $\frac{3}{4}$  of size because the foam will expand. Work upwards to fill deep cavities in layers. Apply light water spray to increase curing speed. Preferably keep can upside down and shake regularly whilst applying foam.

## Limitations

Limitations to joint maximal width exist in regard of ambient temperature and humidity levels.

- In dry conditions (e.g. in rooms with central heating etc.), in order to get best foam structure and foam properties it is recommendable to fill gaps and joints in several layers by the application of smaller foam strings (up to 3 - 4 cm thickness) and slightly misting with water between every layer.
- One time use should be expected.

## GENERAL INFORMATION

### Storage

Best before 15 months from date of manufacture. For longest shelf life avoid storage above +25 °C and below +5 °C (up to – 20 °C for a short period). Always store can with the valve directed upwards. Do not store can on its side. Transportation of odd cans by passenger car: leave the container wrapped in a cloth in the trunk, never in the passengers' compartment.

### Packaging

750ml aerosol can

### HEALTH AND SAFETY

Before using the product, please see related Material Safety Data Sheet that is available to download from [mymds.henkel.com](http://mymds.henkel.com).

"The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. f.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law."



**Henkel Limited**

Wood Lane End, Hemel Hempstead, Hertfordshire, HP2 4RQ

Phone: +44 (0) 1606 593 933

Internet: [www.henkel.co.uk](http://www.henkel.co.uk)

email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)