

# TECHNICAL DATA SHEET

**0892 142; 0892 142 1**

## **PURlogic® Top**

### **Application areas:**

PURlogic® Top is suitable for high-quality and safe insulating and filling of window connections, windowsill attachments, wall connections and hollow spaces such as wall openings, roof finishings, pipe ducts, shutter boxes etc.

### **Properties:**

PURlogic® Top is a ready-to-use, 1-component, self-expanding rigid polyurethane foam to be processed with an appropriate foam gun. The foam has excellent assembly properties as it can be applied exactly and economically thanks to the foam gun.

Adheres excellently to almost all building surfaces such as concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, PTFE, grease and silicone.

PURlogic® TOP is dimensionally stable, there is no volume shrinkage and post-expansion is low as soon as the product has fully hardened. In addition, PURlogic® TOP also has better sound and heat insulating characteristics than mineral wool, cork and fibreglass.

The product hardens quickly, is resistant to ageing and does not rot; it is not UV-resistant, but is free of HCFCs and CFCs. The propellant does not cause any harm to the ozone layer.

Properties examined in independent test institutes:

- EMICODE: Very low emissions
- Component testing: Fulfils all structural-physical requirements in old and new buildings, inspected by Gewerbliche Akademie für Glas-, Fenster- und Fassadentechnik (Commercial Academy for Glass, Window, and Facade Technology) in Karlsruhe, Germany.
- Joint sound insulation:  $R(ST,w) = 60$  dB according to EN ISO 717-1, tested by ift Rosenheim.
- Thermal conductivity: Reduces thermal loss at  $0.0362/(mK)$  according to DIN 52612 tested by MPA- Hannover
- Air permeability: Prevents drafts, tested according to DIN 18542 by ift Rosenheim.



# TECHNICAL DATA SHEET

- Water vapour permeability: Tested water vapour diffusion resistance of  $20\mu$  according to DIN EN ISO 12572 by ift Rosenheim
- General test certificate issued by construction authorities: Corresponds to material class B2 according to DIN 4102, Part 1, tested by Material Testing Institute in Leipzig.

## Application:

Shake can vigorously 20 times before use. Surfaces must be clean, solid and free from dust and grease. Pre-treat highly absorbent surfaces. Adhesion surfaces must be moistened with water before the foam is applied. Moisten again if several foam beads are applied. Screw the can all the way into the gun support – do not screw too far or tilt. Foam continues to expand after application. Immediately remove any fresh splashes of foam with PURlogic® Clean, art. no. 0892 160. Thoroughly clean the gun and valve after use. Always leave the open can screwed onto the gun. The contents of the can must be used within 4 weeks.

## Technical data:

Base material	Polyurethane
Bulk density (DIN EN ISO 845)	12 kg/m <sup>3</sup>
Hardening speed	approx. 30 minutes – 30-mm foam bead *)
Tack-free time	approx. 7 minutes – 30-mm foam bead *)
Processing temperature of can	> +5 °C
Substrate/ambient temperature	> -5 °C
Temperature resistance of expanded foam	Continuous: -40 °C to 90 °C +120 °C (up to max. 1 hr.)
Cutable	approx. 40 minutes – 30-mm foam bead *)
Spreadable	approx. 2 hours – 30-mm foam bead *)
Fully loadable	approx. 12 hours – 30-mm foam bead *)
Foam yield	approx. 40 litres *)
Post-expansion	Low
Shearing strength (DIN 53427)	0.12 N/mm <sup>2</sup>
Flexural strength (DIN 53423)	0.6 N/mm <sup>2</sup>

# TECHNICAL DATA SHEET

Compressive strength (DIN 53421)	0.3 N/mm <sup>2</sup>
Breaking elongation (DIN 53571)	approx. 20%
Thermal conductivity (DIN 52612)	0.0362 W/mK
Joint sound insulation (DIN 52210)	RST,w (C;Ctr) = 60 (-1;-6) dB (10 and 20 mm joint width)
Building material class (DIN 4102 Part 1)	B2
Shelf life at 20°C	At least 12 months when stored upright in dry conditions

\* ) Measured at 20°C/65% humidity and for a 30-mm adhesive bead. These values may vary depending on environmental factors such as temperature, humidity and the type of substrate

## Notes:

Primer should be applied to porous and absorbent surfaces. PURlogic® TOP can be processed using PURlogic® Xpress, art. no 0891 152 4 and PURlogic® COMBIpress, art. no 0891 152 6 foam guns. Other guns are not compatible!

We provide this advice based on our own tests and experience and to the best of our knowledge. However, due to the large number of applications and the storage and handling conditions that lie outside the scope of our influence, we assume no liability for the application results in individual cases.

This also applies to the use of the non-binding technical and commercial customer service provided by us. We always recommend that you conduct your own tests. We guarantee the consistent quality of our products. We reserve the right to make technical changes and further develop products.