

PRODUCT DATA SHEET

ISO-TOP ELASTIFLEX



illustration purposes only

PRODUCT DESCRIPTION

ISO-TOP ELASTIFLEX is an extremely flexible PUR foam in a can and is about three times more flexible than the conventional PUR foams on the market. It has been designed for the thermal and sound insulation of connection joints, the installation of construction elements according to the RAL "installation guide". The high flexibility significantly reduces the risk of the foam cracking in the joint, and thus supports thermal and sound insulation long-term on the functional level. ISO-TOP ELASTIFLEX supports the airtightness of connection joints and can be processed at temperatures from -10°C. Low volume loss and very good foam structural stability are additional positive characteristics of ISO-TOP ELASTIFLEX.

APPLICATION

- foam-filling of the connection joints of window and door frames in accordance with Building Energy Act (EnEV was vaild 31.10.20), DIN 4108-7 and the RAL "installation guide" for windows and external doors.
- permanent, flexible foam-filling of connection joints on gables, purlins, eaves, roof beams, dormer windows, roof windows and pipe ducts for fresh air and waste air

PACKAGING

12 spray cans (of 750 ml) per box

ACCESSORIES

- ISO-TOP CLEANEX for easy cleaning
- ISO-TOP GUN / GUN EASY for efficient processing

PRODUCT ADVANTAGES

- about three times more flexible than the conventional PUR foams
- no pressure, will not bow or distort framework
- tested to GEV-EMICODE®, certified as very low-emission (EC1^{PLUS})
- excellent adhesion to almost all construction surfaces
- very fast curing
- solvent-free
- resistant to ageing, rotting, mould and decay, not resistant to UV light
- complies with the requirements of the Building Energy Act (EnEV was vaild 31.10.20) and the recommendations of the RAL "installation guide"
- 10 Year Function Warranty*

* On the conditions of the manufacturer (available on request).

SAFETY RECOMMENDATIONS

Always wear safety gloves and goggles when working with the material. Only use in well ventilated rooms. See the EC safety data sheet for more information. Giscode: PU 80, handling this product can lead to allergic reactions in persons who have already been sensitised to di-isocyanate.



ISO-TOP ELASTIFLEX

| Technical data | Standard | Classification |
|--|-----------------------------------|--|
| Colour | | cream |
| Base | | polyurethane |
| Consistence | | stable foam, thixotropic |
| Density in kg/m ³ | DIN EN ISO 845 | approx. 21 |
| Processing temperature | | +5 °C to +35 °C (temperature of adhesive surfaces) -10 °C to +40 °C (ambient temperature) +5 °C to +30 °C (can temperature) optimum = approx. 20 °C |
| Temperature resistance | | -40 °C to +90 °C |
| Curing speed | Feica TM 1014 | approx. 8 minutes |
| Curing system | | curing through air humidity at room temperature |
| Can be cut* | Feica TM 1005 | approx. 35 minutes |
| Foam yield* | Feica TM 1003 | up to 33 L per 750 ml |
| Cellular structure | | fine cellular structure |
| Tensile strength | Feica TM 1018 | approx. 40 kPa |
| Shear strength | Feica TM 1012 | approx. 22 kPa |
| Compressive strength | Feica TM 1011 | approx. 15 kPa |
| Elongation at break | DIN 53571 | approx. 30% |
| Permanent deformation under pressure 50% compression 22h after 1 day recovery | ISO-1856 | 6% |
| Water absorption | EN 1609 | 1 Vol. % |
| Water vapour diffusion resistance μ | DIN EN ISO 12572 | 20 |
| Thermal conductivity | DIN 52612 | $\lambda = 0.0345 \text{ W} / (\text{m} \cdot \text{K})$ |
| Air permeability | according to DIN 18542 | $a < 0.1 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$ |
| Sound insulation | EN ISO 717-1 | $R_{\text{ST,w}} (\text{C}; \text{Ctr}) = 60 (-1; -4) \text{ dB} (10 + 20 \text{ mm joint width})$ |
| Shrinkage after curing | Feica TM 1004 | < 4% |
| Building material class | DIN 4102 Part 1 DIN EN 13501-1 | B2 class E |
| Shelf life** | | can be stored in unopened packaging for 18 months after date of production |
| Storage temperature | | +5 °C to +25 °C in dry environment |

The specifications refer to the completely cured product.

* Measured at 23 °C / 50% RH. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

** Storage: To prevent the spray heads becoming clogged, the cans must always be stored upright.

PROCESSING

As from 24 August 2023 adequate training is required before industrial or professional use. Can be applied to all standard construction surfaces such as concrete, masonry, stone, plaster, timber, corrosion-protected metal, polystyrene (EPS and XPS), PIR / PUR rigid foam, polyester and rigid PVC. The adhesive surfaces must have a sufficient load-bearing capacity and be clean, dust- and grease-free. Surfaces containing building moisture are suit-

able, but wet surfaces are not suitable. Slightly moisten dry surfaces in order to improve adhesion and curing as well as the cell structure of the foam. It is always advisable to carry out an adhesion and compatibility test on any surface.

Shake the can vigorously at least 30 times before use. Shake the can again if it is not used for longer periods. Fill larger cavities using several layers of max. 40 mm thickness.

The details and information given in this literature are based on best current knowledge. They are intended to serve as general information only and it is advised that the user conducts their own tests for their specific set of conditions to determine the suitability of the product for its proposed use. No warranty or liability is given or implied regarding any part of these instructions or details, or the completeness of the information. We reserve the right to modify, or change, the specifications and information without advance notification. All goods are supplied subject to our standard conditions of sales, copies of which are available upon request.