PRODUCT DATA SHEET
ISO-TOP THERMFOAM BLUE LINE

ISO CHEMIE
Use the blue technology.

PRODUCT DESCRIPTION

ISO-TOP THERMFOAM „BLUE LINE" is a sustainable user-friendly, very low-emission single-component polyurethane expanding foam for a healthy living environment. It also offers excellent technical properties. It is a healthier alternative to conventional PUR foam based on a low-monomer recipe, with a free isocyanate content of less than 0.1 %. This foam is ideal for filling and insulating joints and cavities, providing thermal and noise insulation thanks to its high dimensional stability.

APPLICATION

- sealing expansion joints and cavities when installing windows, doors and roller shutter boxes
- filling and insulating joints and cavities in loft conversions and roof insulation projects
- foam-filling of smaller recesses and breakthroughs in masonry, cable feed-throughs and other cavities
- excellent adhesion to almost all construction surfaces such as concrete, sand-lime block, brick, wood, metal and plastic

PACKAGING

12 spray cans (of 500 ml) per box

ACCESSORIES

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

PRODUCT ADVANTAGES

- especially healthy to use
- free isocyanate content < 0.1 %
- contains no chlorinated paraffins, halogens or plasticisers
- can be used without formal training even after 24.08.2023
- fulfils requirements of DGNB (German Association for Sustainable Buildings) levels 1-4
- contributes to a healthy indoor environment
- tested to GEV-EMICODE®, certified as very low-emission (EC1 PLUS)
- acoustic and thermal insulating
- outstanding dimensional stability, i.e. no shrinkage and low subsequent stretching once cured
- largely closed cell, resistant to rotting, moisture and ageing**
- after curing, it can be plastered, painted or pasted over
- complies with the requirements of the Building Energy Act and the recommendations of the RAL "installation guide"
- 10 Year Function Warranty*

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

** Not permanently resistant to UV.

GEV-EMICODE EC 1 PLUS very low emission
ANALOGUE FEICA

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ISO-TOP THERMFOAM BLUE LINE

Technical data	Standard	Classification
Colour		white
Base		polyurethane
Consistency		stable foam (does not sag)
Density in kg/m³	Feica TM 1019	approx. 18
Processing temperature		+5 °C to +35 °C (temperature of adhesive surfaces) +5 °C to +30 °C (ambient temperature) +5 °C to +30 °C (can temperature)
Temperature resistance		-40 °C to +80 °C +100 °C (up to 1 hour)
Curing system		curing through air humidity at room temperature
Surface no longer sticky	Feica TM 1014	approx. 20 minutes
Can be cut*	Feica TM 1005	approx. 95 minutes – 30 mm foam bead
Despreadable*	Feica TM 1009	approx. 150 minutes
Fully dimensionally stable*		approx. 24 hours – 30 mm bead
Foam yield*	Feica TM 1003	approx. 23 liters
Expansion	Feica TM 1010	approx. 220 % - 35 mm joint
Cellular structure		very fine cells
Tensile strength	Feica TM 1018	0.1 N/mm²
Shear strength	Feica TM 1012	0.055 N/mm²
Compressive strength at 10 % compression	Feica TM 1011	0.02 N/mm²
Elongation at break	Feica TM 1018	approx. 30 %
Water vapour diffusion resistance μ	DIN EN ISO 12572	41
Thermal conductivity	DIN 18159-1	λ = 0.035 W/(m·K)
Air permeability when new	DIN EN 12114	a < 0.1 m³/[h·m·(daPa)$^{2/3}$]
Sound insulation	EN ISO 717-1	$R_{ST,w}$(C;Ctr) = 64 (-1;-4) dB (10 + 20 mm joint width)
Shrinkage after curing	Feica TM 1004	+/- 5 %
Building material class	DIN 4102 Part 1	B2 (flammable)
Shelf life**		can be stored in unopened packaging for 15 months after date of production
Storage temperature		+10 °C to +20 °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.

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.

PROCESSING

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 be stable, clean, dust- and grease-free. Surfaces containing building moisture are suitable, but wet surfaces are not suitable. Slightly moisten dry surfaces in order to improve adhesion, 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. Before using, screw on the nozzle and then shake the can vigorously at least 30 times. Shake the can again if it is not used for longer periods. Fill larger cavities using several layers of max. 40 mm thickness.

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