Lionpur FLEX

Technical data

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation (FEICA TM 1014)	7 min
Cutting Time (FEICA TM 1005)	40 min
Density**	Ca. 25 kg/m³
Air permeability (DIN 18542)	a < 0,1 m³/[h.m.(daPa)²/³]
Water vapor permeability (DIN EN ISO 12572)	μ = 20
Sound insulation (EN ISO 717-1)	63 dB
Thermal conductivity (λ) (EN 12667)	Ca. 0,034 W/m.K
Box Yield (FEICA TM 1003)	750 ml yields ca. 30 l of foam
Joint Yield (FEICA TM 1002)	750 ml yields ca. 21 m of foam
Shrinkage after curing (FEICA TM 1004)	< 5 %
Expansion after curing (FEICA TM 1004)	< 5 %
Expansion during curing (FEICA TM 1010)	Ca. 75 %
Percentage closed cells (ISO4590)	Ca. 3 %
Fire rating (DIN4102)	B2
Permanent deformation under pressure (ISO 1856) 50% compression 22h after 1 day recovery	Ca. 6 %
Compressive strength (FEICA TM 1011)	Ca. 15 kPa
Shear strength (FEICA TM 1012)	Ca. 25 kPa
Tensile Strength (FEICA TM 1018)	Ca. 42 kPa
Elongation at Fmax (FEICA TM 1018)	Ca. 25,1 %
Water absorption	Ca. 0,28 kg/m²
Temperature resistance**	-40 °C till +90 °C (cured) +120 °C (max 1 hour)

** This information relates to fully cured product.
Test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: http://www.feica.com/our-industry/pu-foam-technology-ocf . FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: www.feica.eu

Product description

Lionpur FLEX is a one-component, self-expanding, ready to use polyurethane foam with elastic properties, which allow the foam to follow the movement of the joint and keep its insulation properties for many years.. Lionpur FLEX is filled with HCFC- and CFC-free propellants which are not harmful for the ozon layer.

Properties

- 3 times more flexible then standard PU foam
- Airtight
- Water Vapour Open
- 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.
- Very precise to dose.
- Low expansion
- Elastic and compressible.

- Freon free (not harmless to ozone layer and greenhouse effect)
- Fast curing
- Not UV-resistant

Applications
- All foam applications in static and not static joints.
- Installing of window and door frames.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of a sound absorbing layer.
- Improving thermal isolation in cooling systems.

Packaging
Color: Champagne
Packaging: 750 ml aerosol (net)

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

Application method
Shake the aerosol can for at least 20 seconds. Fit the gun on the adapter. 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 65 %, 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 a gun & foam cleaner or acetone. Cured foam can only be removed mechanically or with a PU-Remover.

Can temperature: +5 °C - +30 °C
Ambient temperature: -10 °C - +35 °C
Surface Temperature: -10 °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
- The use of a foam gun offers the possibility to dose the foam very precisely.
- Slightly moistening of the surface in hollow spaces optimizes curing, good adhesion and yield.