

# TEKAPUR LOW EXPANSION (gun grade)

## PROPERTIES

Tekapur Low Expansion gun grade has a very low expansion and adheres well to most construction materials such as wood, concrete, porous concrete, brick, metal and aluminium. It does not adhere to polyethylene, silicone and PTFE, though.

Advantages of gun grade polyurethane foam compared to hand held foam:

- very precise application contributes to less foam being used;
- easier handling and work;
- no leakage or dripping from the gun's nozzle;
- less cleaning required;
- swift replacement of cans.

## TESTS AND CERTIFICATES

GEV-EMICODE EC-1 PLUS (very low emission)

## USE

Due to low expansion and good adhesion the foam is used for fixing and sealing various building materials such as wooden stairs and window sills etc. It is also suitable for filling narrow gaps. Precise foam application enables a faster completion of final works and economical consumption.

## TECHNICAL DATA

Volume	FEICA OCF TM 1003	42–47l (free foamed) (750ml)
Specific density	FEICA OCF TM 1019	18–20 kg/m <sup>3</sup>
Application temperature		min. +5°C (surface), 20–25°C (can)
Tack free time	FEICA OCF TM 1014	5–10 min.
Cutting time	FEICA OCF TM 1005	20–25 min.
Hardening time		1,5–5 hours, depending on temperature and humidity
Temperature resistance		from -40°C to +90°C
Dimensional stability	FEICA OCF TM 1004	max. ±5%
Water absorption	DIN 53428	max. 1 vol.%
Compression strength	FEICA OCF TM 1011	0,04–0,05 MPa
Tensile strength	FEICA OCF TM 1018	0,12–0,14 MPa
Elongation at break	FEICA OCF TM 1018	20–30%
Thermal conductivity	DIN 52612	0,036 W/(m K) at 20°C
Flammability class	EN 13501–1	F



**Tekapur Low Expansion** gun grade is a one-component polyurethane foam hardening by air humidity. Thanks to its special formulae, this foam has a very low expansion and is thus particularly suitable for gluing, fixing and sealing.



Replaces  
mechanical  
fixing



Gun grade



Withstands  
heavy loads

## APPLICATION

Surfaces should be clean, free of dust, grease and other impurities. Dry and porous surfaces should be moistened with water. The optimal temperature of can at work is room temperature. At lower temperature put the can into warm water with max. temperature of 40°C for about 20 minutes. Before use shake can thoroughly with the valve upside down. Then screw the can onto the gun and press the trigger for about 2 seconds so that the gun is filled with foam. During foam application hold the gun in vertical position. Apply pressure on the trigger to allow the outflow of the foam. The output of the foam can be regulated with the adjustment screw on the back side of the gun. When replacing the can, shake the new can vigorously, unscrew the empty can and immediately replace it with a new one. The can replacement has to be fast to prevent the foam to harden in the adapter. Hardened foam residues in front of the nozzle can be removed only mechanically. At short work interruptions the can can be left screwed onto the gun, but screw on the back side of the gun must be tightened. The can must be under pressure and at least half full, otherwise the foam will harden in the gun. At longer work interruptions, clean the gun with the Tekapur cleaner.

If used for gluing apply the foam onto slightly wet surface in narrow lines and wait for about one minute for the foam to expand. Now you can put the element you want to glue onto the foam.

Since the foam has a very low expansion rate it can also be used for sealing narrow gaps. Due to the already mentioned low expansion of the foam the gaps should be filled with precision.

If you are filling a gap wider than 5 cm, work in layers. Apply the second layer once the first one has hardened. You can speed up the process of hardening by spraying the foam with water. Once hardened, foam should be protected against UV light. Once the foam has hardened, cut it with a sharp knife and finish with plastering, sealing, covering, painting etc. If you do not use the entire can clean the valve with the TEKAPUR cleaner. Hardened foam can only be removed mechanically.

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## PACKAGING

- aerosol can of 750ml
- other packagings are available by agreement

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## STORAGE

18 months (from +5°C to +25°C) or at lower temperatures for shorter periods of time (e.g. during transport).

Higher temperatures shorten storage life.

Store the cans in an upright position.

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## HEALTH, SAFETY HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TTK distributor for a copy.

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## WARNING

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.



FEICA is the Association of the European Adhesive and Sealant Industry and is a multinational association representing the European Adhesive and Sealant Industry. All Feica standards for PU foam are available on:  
<http://www.feica.eu/our-industry/pu-foam-ocf/ocf-test-methods.aspx>