

## INSULATION ADHESIVE (gun grade)

### ONE-COMPONENT LOW-EXPANDING POLYURETHANE ADHESIVE FOR BONDING OF INSULATION PANELS AND FILLING OF OPENINGS

#### FEATURES AND BENEFITS

- INSULATION ADHESIVE is a polyurethane adhesive specially designed for bonding thermal-insulation panels.
- The adhesive has a good adhesion to EPS and XPS Styrofoam panels, MW insulation panels and slats, concrete, bricks, OSB panels and wood.
- Hardens with air humidity. Hardening time is 1 – 2 hours, 6 – 12 minutes after application, it is no longer sticky to the touch.
- Resistant to ageing.
- To be applied using a mounting gun.
- Precise adhesive dosage and fast hardening enables a faster completion of finishing works and more economical consumption compared to cement adhesives.
- A layer of polyurethane adhesive under the insulation panel provides additional thermal insulation.



Advantages of gun polyurethane foam over foam with a mounting adapter:

- lower consumption due to more accurate dosing
- easier handling and work
- no leakage or dripping from the gun nozzle
- less cleaning
- quick can replacement
- faster completion of works

#### TESTS AND CERTIFICATES

EN 13501-1

GEV-EMICODE

Testing in accordance with ETAG –

E

EC-1 PLUS (very low emission)

guidelines 004 (ZAG)

#### FIELD OF APPLICATION

The one-component low-expanding polyurethane adhesive is specially designed for bonding thermal-insulation panels (polystyrene, stone wool, polyurethane) to building surfaces.

#### USAGE INSTRUCTIONS

Apply the adhesive on the edges of the panel as well as on the surface in a W-shaped pattern. Attach the panel to the wall one minute after the adhesive is applied to the insulation panel. After attaching the panel to the wall, you have max. 15 min. to adjust its position, further works can begin 2 hours later when the adhesive is hardened. Additional anchorage of the insulation panels depends on the quality of the construction substrate. At the bottom of the building, on old plasters, concrete and non-load-bearing substrates, anchoring is always necessary. Shake the can thoroughly before using it with the valve facing

down and screw it onto the gun using a black adapter. Set the desired adhesive outflow with the adjustable screw on the back of the gun. Always work with the can vertically and the valve pointing downwards for maximum efficiency. In the event of a brief interruption in work, keep the can tight on the gun by tightening the screw on the back of the gun. If the work is interrupted for a longer time period, clean the fresh adhesive from the gun using the TTK PU FOAM CLEANER. The hardened adhesive can be removed from the gun nozzle and other surfaces mechanically. The surfaces to which the adhesive is applied must be clean and free of dust and grease. If plasters are loose or have poor adhesion, they must be removed. We recommend moistening the surfaces with water prior to application. The optimal can temperature during use is 20 – 25°C. One can suffices for the fixation of 8 –12 m<sup>2</sup> of insulation. Store cans in an upright position! Slovenian Technical Approval STS-09/0077 Certificate REG2-0004-03-ZGPro1-2968 Flammability class (EN 13501-1): E Density of hardened foam (FEICA OCF TM 1019): 12 – 19 kg/m<sup>3</sup> Adhesion strength between adhesive and concrete / brick /mortar/ OSB panel / wood / EPS / XPS / mineral wool (EAD 040083-00-0404): ≥ 80 kPa

#### TECHNICAL DATA

Volume:		60–80 linear meters (750 ml)
Adhesive density:	FEICA OCF TM 1019	16–18 kg/m <sup>3</sup>
Application temperature:		min. +5°C (surface), 20–25°C (can)
Tack free time:	FEICA OCF TM 1014	6 –12 min.
Hardening time:		1–2 hours, depending on temperature and humidity
Temperature resistance:		–40°C to +90°C
Dimensional stability:	FEICA OCF TM 1004	max. ± 5 %
Water absorption:	DIN 53428	max. 1 vol. %
Compressive strength:	FEICA OCF TM 1011	0.04–0.05 MPa
Tensile strength:	FEICA OCF TM 1018	0.14–0.15 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	E

#### PACKAGING

750 ml aerosol can

other packing methods are available upon request

#### STORAGE

18 months (from +5°C to +25°C), even at lower temperatures (e.g. transport) for shorter periods.

Higher temperatures shorten storage life. Store cans in an upright position.

#### HEALTH, SAFETY, HANDLING AND DISPOSAL INFORMATION

Additional safety information, safe handling instructions, information on personal protective equipment, and disposal information can be found in the safety data sheet. Safety data sheet available on request. You can also obtain a copy from your TTK sales representative.

## WARNING

The information given is based on our tests and practical experience. However, due to specific conditions and working methods we recommend preliminary tests for each case of use.



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>

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