

INSULATION ADHESIVE WINTER (gun grade)

ONE-COMPONENT LOW-EXPANDING POLYURETHANE ADHESIVE FOR BONDING OF INSULATION PANELS AND FILLING OF OPENINGS EVEN IN WINTER CONDITIONS

FEATURES AND BENEFITS

INSULATION ADHESIVE WINTER is a polyurethane adhesive specially designed for bonding thermal-insulation panels also in winter conditions. It can be used up to a temperature of -10 °C, with a min. can temperature of 0 °C. The adhesive has good adhesion to ESP and XPS styrofoam panels, MW insulation panels and slats, concrete, bricks, OSB panels, and wood. It hardens with air humidity. Hardening time is 1.5 – 8 hours, 10 – 15 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 using applicator 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

GEV-EMICODE

EC-1 PLUS [very low emission]

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.

INSTRUCTIONS FOR USE

Surfaces with greater unevenness must be levelled beforehand with a coarse lime-cement mortar. If the wall has a point bulge, grind the insulation panels from the inside so that the outer surface remains flat. Fill any gaps between the panels with polyurethane adhesive. When the polyurethane adhesive has gained adequate mechanical strength after two hours, you can continue to anchor and process the insulation panels. Additional anchorage of the insulation panels depends on the quality of the construction substrate. Anchorage is always required at the bottom of the building, on old plasters,

concrete, and low-quality and non-load-bearing substrates. If the first row of insulation panels does not have a support on the concrete slab or if the lower edge of the facade is higher, a U-profile that is mechanically fixed in the load-bearing wall can be used. The masonry scaffolding must be adequately protected when glueing insulation panels in adverse weather conditions such as wind or rain. When the wind blows, protection at the building's edges is especially important. 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. Shake the can thoroughly before using it with the valve facing down, remove the protective cover 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 can must be pressurized and at least half full to avoid foam solidification in the gun. The only way to remove the hardened adhesive from the gun nozzle and other surfaces is 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. In case of temperature drop, protect the surfaces against frost, ice or snow. Before application, it is recommended to moisten the surfaces with water, but only at temperatures above 0 °C. The optimal can temperature during use is 20 – 25 °C. In case of lower can temperature, immerse the can in warm water at a maximum temperature of 40°C for about 20 minutes. One can suffices for the fixation of 8–12 m² of insulation.

TECHNICAL DATA

| | | |
|--------------------------|-------------------|---|
| Volume: | | 60–80 linear meters [750 ml], |
| Foam density: | FEICA OCF TM 1019 | 15–17 kg/m ³ |
| Application temperature: | | min. -10 °C [surface], 0 °C [can] |
| Binding time: | FEICA OCF TM 1014 | 10–15 min. |
| Cutting time: | FEICA OCF TM 1005 | 20–25 min. |
| Hardening time: | | 1.5 to 8 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. % |
| Compressive 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 |

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. The safety data sheet is available on request. You can also obtain a copy from your TKK 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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