

TEKAPUR INSULATION ADHESIVE (gun grade)

PROPERTIES

Tekapur Insulation Adhesive gun grade is a low-expanding one – component polyurethane adhesive which adheres well to Styrofoam, Styrodur, mineral wool, concrete, porous concrete, brick, plasterboards, OSBs, wood etc.

Advantages of using Tekapur Insulation Adhesive gun grade compared to cement-based adhesive:

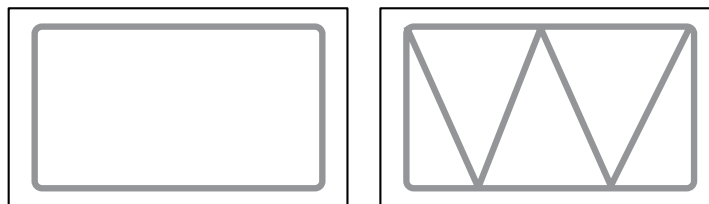
- easy application;
- decreased consumption;
- cheaper implementation of works;
- savings in terms of transport and storage;
- it hardens quickly and is resistant to humidity and low temperatures;
- enables quick progress of work;
- a layer of polyurethane adhesive under an insulation plate provides additional thermal insulation;
- it is watertight as due to its composition the maximum water absorption is 1%;
- it complies with ETAG 004 European guidelines.

TESTS AND CERTIFICATES

EN 13501-1 E
GEV-EMICODE EC-1 PLUS (very low emission)
Tested in accordance with ETAG – guidelines 004 (ZAG).

USE

Surfaces should be stable, flat and clean. Before applying the polyurethane adhesive, the surface should be moistened with water. The moistening is important because it improves the adhesion and accelerates the hardening of polyurethane adhesive. The optimal temperature of the can at work is 20–25°C. Apply Tekapur Insulation adhesive onto the edges of the board and then on its surface in the form of W letter as indicated below.



Tekapur Insulation Adhesive gun grade is a low-expanding one-component polyurethane adhesive used for mounting insulating materials with a help of a gun for PU foam. It is hardened by air humidity.



Easy to use



Saves money



Fast hardening

Precise dosage contributes to lower consumption of the polyurethane adhesive. One can will allow you to fix 12–16m² of insulation material. Final consumption depends on the amount of adhesive used during work and on the flatness of the surface.



To increase the fixing strength and decrease unevenness of the underlying surface, TKK spacers for insulation plates should be used. These should be affixed to the wall prior to moistening.

After applying the polyurethane adhesive onto the insulation plate, you should wait 1–5 minutes max. before fixing it onto the wall. Once the insulation plate is fixed onto the wall, the polyurethane adhesive stops to expand. Levelling of plates can be done in 10–15 minutes after fixation onto the wall. To level small-scale unevenness TKK spacers for insulation plates can be used. Surfaces with bigger unevenness should be levelled with a coarse lime-cement based mortar before affixing insulation plates. In the case of bumps on the wall insulation plates should be ground on the back side so that the exterior surface remains level. In case of rifts between insulation plates, these could be filled with the polyurethane adhesive as well. Already after two hours the adhesive will get the appropriate mechanical firmness, and we can continue with anchoring and further processing of the insulation plates. Additional insulation plates anchoring depends on the quality of the underlying surface. They should always be anchored on the building's base, old plasters, old concrete surfaces as well as on poor quality and non-loadbearing surfaces. If the first line of the insulation plates is not supported by the concrete plate or if the lower façade edge is higher, U-profile channel should be used, which shall be attached mechanically onto the wall. When fixing the insulation plates in bad weather conditions like wind and rain, the scaffold should be properly protected. In windy weather it is especially important to protect the edges of the building.

TECHNICAL DATA

Volume		60–80 linear metres (750ml)
Specific density of the adhesive	FEICA OCF TM 1019	16–18 kg/m ³
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		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	0,14–0,15 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

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 the 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 polyurethane adhesive. During foam application hold the gun in vertical position. Apply pressure on the trigger to allow the outflow of the polyurethane adhesive. The output of the adhesive 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 adhesive to harden in the adapter.

Hardened polyurethane adhesive 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 adhesive will harden in the gun. At longer work interruptions, clean the gun with the Tekapur cleaner. If you do not use the entire can clean the valve with Tekapur Cleaner. Hardened adhesive can only be removed mechanically.

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.

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.

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>