

TEKAPUR CONSTRUCTION ADHESIVE (gun grade)

PROPERTIES

Tekapur Construction Adhesive gun grade is an adhesive intended for building partition walls and adhesion of building materials. It is a substitute for mortar. It is not suitable for building load-bearing walls. It has good adhesion to brick, concrete, stone, wood, and other construction and insulation materials. It has no adhesion to polyethylene, silicone and PTFE. Immediately after application, the structure of the adhesive breaks down and it becomes a "glassy and bubble" mass with very good adhesiveness. The adhesive hardens with air moisture and moisture from the substrate.

Advantages of using Tekapur Construction Adhesive gun grade compared to cement mortar:

- easy to use;
- very good adhesion to various building materials;
- lower material consumption;
- cheaper execution of works;
- savings in transport and storage costs;
- hardens quickly, is resistant to moisture and low temperatures;
- enables rapid progress while working;
- it is water-resistance, as due to its composition the water absorption is at most 1%.

TESTS AND CERTIFICATES

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

THE SCOPE OF USE

Both materials with which we will build and the substrate on which we will glue must be clean, free of dust, grease and other impurities. It is recommended to moisten the surfaces with water before applying the adhesive. Moisturizing is important as it greatly improved adhesion and facilitates the speed of gluing.

The can temperature can be between 5°C and 25°C, and the temperature of the surroundings from 5°C to 35°C. The optimum can temperature to achieve maximum efficiency in use is from 20°C to 25°C.

Tekapur Construction Adhesive gun grade is used in the construction of partitioning walls. It is not suitable for building load-bearing walls. Surfaces must be pre-cleaned of dust particles. When building partition walls, one or two lines of polyurethane adhesive with a thickness of 3 to 4 cm, at a distance of 5 to 10 cm, depending on the width of the brick or boards must be applied. Wait 3 to 5 minutes, but no more than 5, for the glue to harden. The following step is the brickwork. Gradual application of polyurethane adhesive along the length of 2 to 3 m is recommended. After placing the bricks on the glue, they must no longer be moved, because by placing the bricks on the adhesive, its structure collapses. If the bricks are moved, the adhesive must be reapplied.



Tekapur Construction Adhesive gun grade is a one-component polyurethane adhesive for masonry partitions and gluing various building materials. It is an adhesive with a high final strength that hardens with the help of air humidity.



Withstands heavy loads

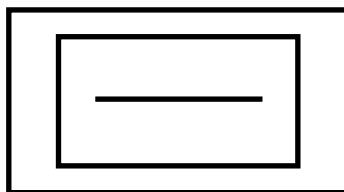


Fast hardening



For use in all seasons

With one 800 ml can, 30 to 40 meters of bricks can be fastened (two lines of glue). Even in the case of gluing, the substrate must be pre-cleaned and moistened. It is important to apply polyurethane glue at least 3 cm from the edge of the board or the material to be glued, for best results we recommend applying polyurethane adhesive as follows:



After application, wait 3 to 5 minutes and then attach the material. When gluing heavier materials, e.g. gypsum boards in a vertical position, they need to be additionally fastened. Minor adjustment of the material is possible up to 10 minutes after attaching to the wall. After 30 minutes, when the polyurethane adhesive has the appropriate mechanical strength, you can continue working. With one can of 800 ml of polyurethane adhesive, 60 to 80 meters of adhesive length can be applied (average adhesive application width is 2 to 3 cm).

The final load is possible after 24 hours.

TECHNICAL DATA

Amount		60–80 meters in length (800 ml)
Application temperature		+5°C to +35°C (surface), +5°C to +25°C (can)
Adhesion time	EN 17333-3	5–10 min.
Hardening time		30min–1 hour, depending on temperature and humidity
Temperature resistance		from -40°C to +90°C
Water absorption	DIN 53428	max. 1 vol.%
Tensile strength	ISO 527–1	0,35–0,40 MPa
Shear strength	DIN 12090	0,30–0,35 MPa
Adhesion on concrete – bond strength		0,32–0,34 MPa
Adhesion on brick – bond strength		0,30–0,32 MPa
Thermal conductivity	DIN 52612	0,036 W/(m K) at 20°C
Flammability class	EN 13501–1	F

INSTRUCTIONS FOR USE

Surfaces must be clean, free of dust, grease and other impurities. Moisten dry and porous substrates with water. The contents of the can should be of room temperature. If the can is colder, put it in warm water with a maximum of 40°C for about 20 minutes. Shake the can well with the valve facing down before use. Then screw it onto the gun and press on the cock for about 2 seconds to fill the gun with polyurethane glue. While working, the dose should always be turned down. Pressing the cock triggers the outflow of polyurethane adhesive. The desired amount of polyurethane adhesive at the outlet is set with a screw on the back of the gun. When changing the can, shake well the new can, remove the empty can and replace it immediately with a new one, otherwise the polyurethane adhesive may harden in the gun adapter. The hardened polyurethane adhesive on the gun nozzle is removed mechanically.

For longer breaks and after work, the gun must be thoroughly cleaned with Tekapur Cleaner to prevent the polyurethane adhesive from hardening in the gun. If the whole can is not used, clean the valve with Tekapur Cleaner. Hardened polyurethane adhesive can be moved only mechanically.

PACKAGING

- aerosol can 800 ml
- other packages possible by prior arrangement

STORAGE

- 12 months (from +5°C to +25°C), short-term even at lower temperatures (e.g. transport).
 - Higher temperatures shorten storage life.
 - Cans must be stored in vertical position.
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HEALTH, SAFETY, HANDLING AND DISPOSAL INFORMATION

Additional information on safety, instructions for safe handling and personal protective equipment, and disposal information can be found in safety data sheet. Safety data sheet is available upon request. You can also get a copy from your TKK sales representative.

WARNING

The instructions are based on our research and experience, but due to the specific conditions and methods of work, we recommend preliminary tests for each use case.



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>