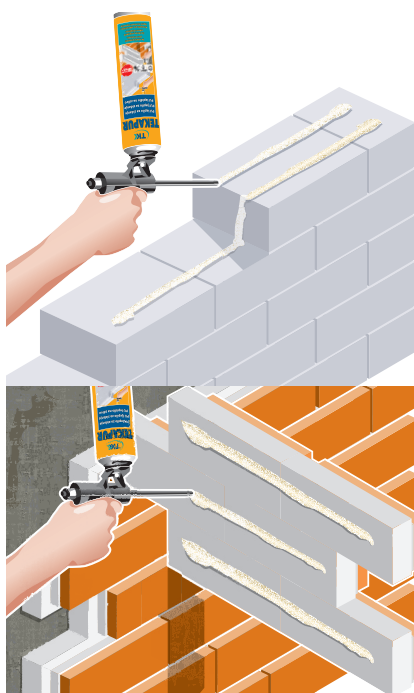




TEKAPUR

PU adhesive for construction



Tekapur PU adhesive for construction is used for building external and internal partition walls and gluing different construction materials like bricks, concrete, thermo blocks, wood panels, stone and other isolation materials. It is not recommended for construction load-bearing walls. It has no adhesion onto polyethylene, silicone and PTFE. PU adhesive is hardening by air humidity.

PROPERTIES

- Easy to use
- Very good adhesion to most building materials
- Can be used in all seasons
- Economical consumption of material
- Less costly
- Less money is used on transportation and storage
- Very clean work
- Hardens fast and is resistant to humidity and low temperatures
- Enables quick progress during work
- Is waterproof since due to its composition the maximum absorption of water is 1%
- Is environmentally friendly since it contains no CFC

TECHNICAL DATA

Application temperature:		-5°C to +35 °C (surfaces), -5°C to +25°C (can)
Tack free time:	18°C / 60% relative humidity	5 - 10 minutes
Hardening time:		1.5 - 3 hours, depending on temperature and humidity
Temperature resistance:		-40°C to +90°C
Water absorption:	DIN 53428	max. 1 vol. %
Thermal conductivity:	DIN 52612	0.036 W/m K at 20°C
Tensile strength:	ISO 527-1	0.35 to 0.40 MPa
Shear strength:	DIN 12090	0,30 to 0,35 MPa
Adhesion on concrete - bond strength:		0,32 - 0,34 MPa
Adhesion on brick - bond strength:		0,30 - 0,32 MPa
Flammability class:	EN 13501, part 1	E

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.

Working temperature of the can is -5 to +25°C and surface -5 to +35°C. The optimal temperature of the can at work is 20 - 25°C.

Polyurethane adhesive is used only for construction partition walls, not load-bearing walls. The bricks or blocks should be clean. First moisten the bricks (thermo block) and apply the polyurethane adhesive into 1 or 2 parallel strips 3 - 4 cm wide. Distance between parallel strips should be 5-10 cm for blocks wider than 20 cm. After applying PU adhesive you should wait 3 - 7 min before fixing a brick or a block. When the block is placed on the adhesive, then it can't be moved anymore. For proper work don't apply more than 2-3 meters of adhesive at ones.

Whit one can (800 ml) we can glue 30 – 35 meters of blocks (2-3 cm adhesive bead).

In case of gluing, we have to apply adhesive 3 cm from the edges of the board and then on its surface in the form of W letter. After applying the polyurethane adhesive onto the material, you should wait 3 - 7 minutes before fixing it. It is necessary to apply that/so much PU adhesive to cover around 40 % of surface. Leveling of material can be done in 15 to 20 minutes after fixation. After two hours, the adhesive will get the appropriate mechanical characteristics and we can continue with further work. Additional material anchoring depends on the foundation quality. Heavy materials like gypsum boards should be always anchored if we are gluing in vertical position.

Whit one can (800 ml) we can glue 60 – 70 meters (2 - 3 cm adhesive bead).

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 the can when used for work is 20 - 25°C. Before use shake can thoroughly with the valve upside down and screw it onto the gun. Press the trigger and let the polyurethane adhesive flow through (ca. 2 seconds). This fills the polyurethane adhesive into the extension tube. The pistol is now ready for use. During polyurethane adhesive application hold the pistol with the can in vertical position. The output of the polyurethane adhesive can be regulated with the trigger and controlled 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 the new one. Can replacement has to be fast to prevent polyurethane adhesive from hardening in the adapter. Hardened polyurethane adhesive in front of the nozzle can be removed mechanically. At short work interruptions (less than 48 hours) the can can be left screwed onto the gun, but the screw on the back side of the gun must be tightened. The can must be under pressure; otherwise the polyurethane adhesive will harden in the gun. At longer work interruptions, clean the gun with TEKAPUR cleaner. Polyurethane adhesive hardening can be accelerated by spraying it with water.

If you do not use the entire can, clean the valve with TEKAPUR cleaner or acetone. Hardened polyurethane adhesive can be removed with APURSIL cleaner or mechanically.

Cured polyurethane adhesive must be protected against UV.

PACKING

- aerosol can of 800 ml

STORAGE

12 months (+10°C to +20°C)

Higher temperatures shorten storage life.

A can must be stored in vertical position.

SAFETY PRECAUTIONS

Content: diphenylmethane-4,4-diisocyanate

R phrases:

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause long-term adverse effects in the aquatic environment. May cause harm to breastfed babies.

S phrases:

Keep out of the reach of children. Do not breathe spray. After contact with skin, wash immediately with plenty of water and soap. Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas.

Additions:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

ATTENTION

The instructions are supplied to the best of our knowledge, experience and tests conducted, however, due to specific work conditions and type of work we recommend to thoroughly test the product to ensure it corresponds to the required performance.