



TEKAPUR

Polyurethane adhesive for insulation plates



Tekapur Polyurethane adhesive for insulation plates is a low-expanding, one component polyurethane foam, suitable for fastening insulation materials with the help of a gun for PU foam. The foam hardens due to air humidity.

PROPERTIES

Tekapur Polyurethane adhesive for insulation plates is low expansion one component foam that has good adhesion onto styrofoam, styrodur and mineral wool. However, it does not adhere to polyethylene, silicone and PTFE.

The advantages of using a Tekapur Polyurethane adhesive for insulation plates:

- Easy to use
- Economical consumption of material
- Less costly
- Less money is used on transportation and storage
- Hardens fast and is resistant to humidity and low temperatures
- Enables quick progress during work
- The layer of polyurethane adhesive under the insulation plate enables additional thermal insulation
- Is waterproof since due to its composition the maximum absorption of water is 1%
- Is environmentally friendly since it contains no CFC
- It is in accordance with ETAG 004 standard

TECHNICAL DATA

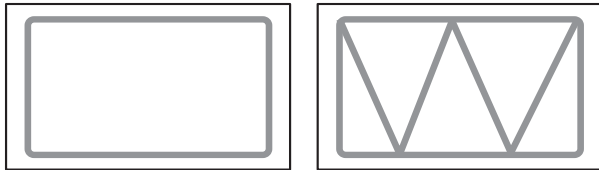
Volume:	43 - 47 l (free foamed) (750 ml)
Specific gravity:	16 - 18 kg/m ³
Application temperature:	min. +5°C (surfaces) 20 - 25°C (can)
Tack free time:	10 - 15 minutes
Hardening time:	1 - 2 hours, depending on temperature and humidity
Temperature resistance:	-40°C to +90°C
Dimensional stability:	max. -1%
Water absorption:	max. 1 vol. %
Compression strength:	0.04 to 0.05 MPa
Tensile strength:	0.07 to 0.08 MPa
Elongation at break:	20 - 30%
Thermal conductivity:	0.036 W/m K at 20°C
Flammability class:	B2
	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.

The optimal temperature of the can at work is 20 - 25°C.

Apply the polyurethane adhesive onto the edges of the board and then on its surface in the form of W letter as indicated below.



Precise dosage contributes to lower consumption of the polyurethane adhesive. With one can is possible to fasten 8-12 m² of insulation material.

After applying the polyurethane adhesive onto the insulation plate, you should wait one minute 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 to 15 minutes after fixation.

Surfaces with bigger unevenness should be levelled with a coarse lime-cement based mortar before affixing insulation plates. In the case of some point convexity on the wall insulation plates should be grinded on the back side so that the exterior surface remains level. In the case that some rifts between insulation plates exist, these could be filled with the polyurethane adhesive.

Already after two hours, the adhesive will get the appropriate mechanical characteristics and we can continue with mechanical fixation and further processing of the insulation plates. Additional insulation plates anchoring depend on the foundation quality. They should be always anchored on the buildings base, old plasters, old concrete surfaces as well as on the unloadbearing surfaces.

If the first line of the insulation is not supported by the concrete plate or the lower facade edge is higher, U profile mechanical fixed on the loadbearing wall can be used as support.

When fixing the insulation plates in bad weather conditions like wind and rain, the scaffold should be properly protected. In windy weather the protection of the buildings edges is especially important!

Cured polyurethane adhesive should be protected against UV light.

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. If the can has a lower temperature, put it into warm water (max. T = 40°C) for about 20 minutes. 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 750 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.