

Technical Data Sheet

ZM-37C

ONE-COMPONENT POLYURETHANE ADHESIVE

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1. Purpose

ZM-37C adhesive is designed to bond together elements made of flexible polyurethane and cellulose foams and fibrous materials.

2. Physico-chemical specification

State of aggregation	liquid
Colour	yellowish
Viscosity at 25°C [mPas]	1000-2000
Density at 20°C [g/cm ³]	1.05-1.15

3. Technological properties*

ZM-37C polyurethane adhesive hardens by reaction with moisture contained in air and glued materials. The joint slightly foams in the course of bonding. The adhesive hardening times get shorter together with temperature increase and also with air and glued materials humidity increase. After bonding the adhesive makes flexible joint resistive to temperatures in the range of -40°C to +80°C.

4. Application method

The adhesive can be applied by spray or with brush. Spread adhesive should be bedewed with water mist for uniform hardening on the whole glued surface. Both glued elements should be tightened together after adhesive and water mist applying and kept under load until the joint hardens. The adhesive consumption value is 40 – 300 g/m² and it depends on glued materials texture.

Tab. The adhesive technological times under room conditions: 23 °C, 50 % relative humidity, the adhesive sprayed with water:

Open time for glued elements assembly and pressing	12 min
Pressing time in the case of gluing of wood	45 min

5. Processing conditions

Glued surfaces should be free of dirt and degreased, if necessary.

Application temperature range	+5°C to +40°C
Optimum humidity	50 – 80 %
The adhesive consumption	0.04 – 0.3 kg/m ²
Time for full strength of the joint achieving	24 h
Storage temperature recommended	+15°C to +25°C

The adhesive should be stored in tightly closed containers. One should open the container, take necessary volume of the adhesive and close it tightly again.

Expiration date for use:

- metallic containers (drums, hobbos, cans) 12 months
- barrels, canisters and bottles made of plastics 12 months
- IBC containers 6 months

6. Application safety

ZM-37C is harmful substance. Read carefully Safety Data Sheet of the product before use. Wear standard protective clothing when operating with the adhesive. Wash off fresh contaminations with Pursan ACT solvent. Hardened adhesive can be removed mechanically.

*Notes

Data presented in this information have been obtained in model conditions. The results obtained when operating in other conditions can be slightly different from published.

Every time the user is obliged to check usefulness of the product and auxiliary agents to his specific task.

The user is obligated to have a valid technical data sheet and safety data sheet of the product, which is provided by the manufacturer during the sale and every time on the customer's request.

Prior to processing the user must carefully read aforementioned documentation and follow the rules of procedure for product use.