



TECHNICAL DATA

MITOPUR A+B

multipurpose polyurethane adhesive

DESCRIPTION

MITOPUR A + B is a two component solvent-free polyurethane adhesive.

FIELDS OF APPLICATION

The adhesive is applicable for building and repairing of boats and sailing-boats, for gluing various materials in cars and for reparations in homes. It can be used for gluing metals, synthetic resins (except polyethylene, polypropylene and Teflon), ceramics, wood, glass, cement, paper etc. Isolation panels of glass, wool, polystyrene and foamed polyurethane could be glued on mentioned materials. The joint is strong, resistant to water, chemicals and temperatures from - 40°C to + 80°C.

CHARACTERISTICS

Viscosity (ISO 2555-Brookfield RVT):

- component A 18000 - 28000 mPa.s (at 23°C, spindle 6/50rpm)
- component B 100 - 400 mPa.s (at 23°C, spindle 2/50 rpm)

Density:

Mixing ratio by weight A : B 81,5 : 18,5

Applying: by notched trowel

Pot life for 100g adhesive (int. method 4/02) 90 – 150 minutes

Spread quantity: 0,4 – 0,6 kg/m² on smooth surfaces
0,6 - 1 kg/m² on rough surfaces

APPLICATION

Preparing of the gluing surfaces

The surfaces to be glued should be dry, clean and free from fat and dust. Sanding of very smooth surfaces is recommended. Aluminium surfaces should be treated chemically.

Preparing of adhesive

Before use, the component A should be mixed well. The both components should be dosed in the correct mixing ratio and mixed into homogeneous mixture. The quantity of prepared adhesive should be according the consumption within pot life of the adhesive.

For gluing wood it is necessary to coat wood surface with component B 24 to 48 hours before gluing

Applying and consumption of adhesive

The adhesive can be spread one side by notched spatula. Consumption of adhesive is 400 – 1000 g/m² depend on roughness and porosity of gluing surfaces.

Pot life

Pot life of adhesive for the quantity 1,25 kg of the mixture (1kg A + 0,25 kg B), both components at 23°C, is about 45-60 minutes. Pot life is depend on the room temperature, the temperature of the both components and the quantity of the mixing adhesive. Lower temperatures and smaller quantities of the mixing adhesive prolonged pot life.

Pressing time

When gluing two parts together, the pressure which makes them fit is sufficient. Hardening of the adhesive and pressing time can be shorted by heating, but not above 60°C. Do not glue at temperatures below +15°C.

Adhesive	Minimum pressing time (iron plates/mineral wool)		
	at 20°C	at 45°C	at 60°C
MITOPUR A+B	300 minutes	85 minutes	40 minutes

The final joint strength is achieved after 7 days.

When gluing two parts together, the pressure which makes them fit is sufficient. Leave them by the pressure 24 hours at the room temperature. The final hardness of the joint is attained after 7 days at the room temperature. Higher temperatures are shortening the hardness time, lower temperatures are prolonging the hardness time. We do not advise gluing at the temperatures under + 15°C, do not glue at temperatures under + 5°C.

Cleaning

Cleaning of tools is easier when the adhesive is still unhardened:

1. Cleaning of still liquid adhesive is possible mechanically with paper immediately after using or with thinner Mitosol S50, ethyl acetate or acetone, if necessary.
2. Cleaning of hardened adhesive is possible after soaking in thinner Mitosol S50, ethyl acetate or acetone. Alcohol, nitro thinner and thinner for paints are not suitable solvents for polyurethane adhesive. To protect hands we recommend using the protective rubber or polyethylene gloves.

STORAGE

In well-closed original packing in a cool and dry place at the temperatures from +5°C to +25°C will last at least 18 months. Keep away from moisture.

PACKING

In complete 1,25 kg, componente A in 1kg tin and componente B in 0,25kg tin.

The information provided herein, especially recommendations for the usage and application of our products, is based on our knowledge, results of laboratory tests and practical experience gained to date.

We guarantee a constant quality of our products under our technical specifications. Technical advice of our application department is available without obligation. This does not release the buyer from testing our products in his own responsibility with respect to their suitability for intended application and application process. Such an evaluation should be repeated if materials are changed in any way or bought from a different source.

We do not accept any liability with regard to above information or with regard to any verbal recommendation since different materials used in conjunction with our products as well as varying working conditions are beyond our control.