

CONSTRUCTION

EKOPUR LA

TWO COMPONENT POLYURETHANE SYSTEM

DESCRIPTION

Ekopur LA is two-component, non-foaming, rigid polyurethane system with inorganic filler. Final material is obtained after mixing component A (mixture of polyols and additives) and component B (polymeric MDI based) in a given volume ratio. Application parameters of the system can be adjusted to customer specific requirements.

APPLICATION AND USE

Ekopur LA is used to produce construction and decorative elements with casting method.

ADVANTAGES

- Easy application
- Good mechanical properties
- Easy post processing



TECHNICAL DATA

The data below are laboratory data. They may vary in practice due to surface properties of the substrate, humidity, pressure, and other factors.

PROPERTIES

Parameter	Value
Density of component A at 25 °C	1.60 – 1.64 [g/cm ³]
Viscosity of component A at 25°C	2500 - 3500 mPas
Density of component B at 25 °C	1.22 – 1.24 [g/cm ³]
Viscosity of component B at 25°C	220 - 240 mPas
Mixing ratio A:B (by weight)	100:30:00
Mixing ratio A:B (by volume)	100:40:00
Gel time at 20 °C	4 – 7 [min]
Tack free time at 20 °C	10 – 20 [min]
Material density	1450 ± 50 [kg/m ³]
Shore hardness	85 ± 5 [°ShD]
Tensile strength	27 ± 1 [MPa]
Elongation at break	6 ± 1 [%]
Flexural strength	56 ± 1 [MPa]
Young's modulus	2600 ± 50 [MPa]
Shrinkage	max 0.5 [%]

APPLICATION METHOD

Processing two-component polyurethane systems in order to obtain the final product may be carried out “by hand” or by using specialized equipment. In the manual method, it is necessary to mix carefully the components, avoiding aeration of the mixture. Machine method requires the two-component machine unit to mix the components in the continuous way.

SAFETY INSTRUCTIONS AND LIMITATIONS

When applying the product, use standard PPE meant for work with chemicals: safety gloves and goggles, protective clothing etc. Immediately change the clothes if they become soaked with components. For detailed safety information please see the Material Safety Data Sheet.

Failure to follow the application equipment operating manual and particularly its poor technical condition, insufficient cleaning and lack of maintenance, leads to a change in the ratio of supplied components which reduces material properties or makes the process completely impossible.

PACKAGING AND TRANSPORTATION

Adhesive components are packed into barrels/canisters with a capacity of 20 or 30 litres. Containers are delivered on pallets. After arranging with the customer, the material can be delivered in alternative packages (for instance 200 litres barrels or 1000 litres containers).

STORAGE AND SHELF LIFE

The component A and B shall be stored in airtight containers and in dry and well-ventilated areas at 10 - 30 °C.

The warranty period for properly stored components (A and B) is 6 months.

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

- Hygienic assessment (PZH)

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ADDITIONAL DOCUMENTATION

- EKOPUR LA MSDS

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
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CUSTOMER SERVICE

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