

Elastopack MJ

Elastopack MJ is a 2-component, phthalate free, elastomeric polyurethane resin developed for injection into cracks, voids and joints.



• field of application

- Sealing joints, cracks and voids against high hydrostatic pressure and fast flowing water.
- Repairing water leaks in structures under permanent water pressure.
- Preventative waterproofing of structures under permanent water pressure.

• advantages

- ADR free transport.
- Phthalate free resin, REACH compliant.
- Good adhesion on concrete.
- Very good chemical resistance to most acids, alkalis and biological attack^(*).
- Remains flexible, even at low temperatures.

• description

Elastopack MJ is a 2-component, phthalate free, 1/1 ratio, polyurethane resin with elastomeric properties. When injected through a specially designed 2-component injection head with static mixer, Elastopack MJ will cure into a tough closed cell elastomeric compound.

Elastopack MJ is supplied in a 2-component set:

- A-component : polyurethane.
- B-component : rubber polymer dispersion.
- Mixing ratio : 1/1 volumetric.

• application

- Elastopack MJ is injected with a twin piston, 1:1 ratio pump. Consult the MSDS before mixing and/or handling.
- Elastopack MJ has been especially developed for injection against pressing water.
- Elastopack MJ is typically injected into defective areas.
- Holes are drilled in the affected area at a 45° angle.
- Water can be forced into the hole to determine whether all cracks can be injected and if additional holes need to be drilled.
- Visible surface leaks should be sealed with a fast setting cement. Allow the cement to harden completely before injecting Elastopack MJ.
- Use standard packers or equipment according to local regulations.
- Elastopack MJ is then injected into the holes with a high pressure pump capable of 215 bars. This forces the Elastopack MJ deep into the structures and allows penetration of even the smallest cracks.
- When surface leaks show up during pumping, stop immediately and seal the leak by approved method.

• **technical data/properties**

- Both components of Elastopack MJ react with each other immediately after mixing, so that even after 5 seconds the mixture gets creamy and the viscosity starts to increase. This however, does not limit the flow of the material. After 30 seconds the reaction is completed.

1. Injection

- Due to the short reaction time it is only possible to use Elastopack MJ with 2-component injection pumps.
- It is extremely important to use a static mixing head. The mixing device must consist of at least 10 mixing elements and must be cleaned immediately after injection using Washing Agent Eco for the A side and water for the B side of the pump.

2. Cleaning

- When injection is finished, clean A-component of the pump with Washing Agent ECO. The B-side of the pump has to be cleaned with water.

Property	Value			Norm
	A-component	B-component	Mixture A+B	
Viscosity (25°C)	Approx. 400 mPa.s	Approx. 400 mPa.s		EN ISO 3219
Density (20°C)	Approx. 1,100 g/cm ³	Approx. 1,100 g/cm ³	Approx. 1,100 g/cm ³	EN ISO 2811
Colour	Transparent, yellowish	Milky White	Yellowish	
Start of reaction (20°C)			Approx. 15 sec.	
End of reaction (20°C)			Approx. 45 sec.	

• **appearance**

Elastopack MJ A-component: transparent yellowish liquid.
Elastopack MJ B-component: milky white liquid.
After curing, the product turns into a polyurethane elastomer.

• **consumption**

Has to be estimated by the engineer or operator and depends on width and depth of the cracks or joints to be injected.

• **packaging**

A-component : 25 kg metal pail.
B-component : 25 kg plastic pail.

• **storage**

Elastopack MJ (should be stored in a frost-free environment under cover, clear of the ground, in the original closed packaging.)
Shelf life: 1 year.

• **accessories**

To be ordered seperately

- IP 2C-Variflow air driven twin piston pump.
- Packers and connectors.
- Washing Agent ECO.
(Please consult the relevant data sheet.)

• **health & safety**

Elastopack MJ contains a hydrophilic polyurethane prepolymer based on methylene diphenyl diisocyanate (MDI) and polyetherpolyols. The material safety data sheet must be read before use. When working with Elastopack MJ use the personal protection equipment specified: protective glasses, protective gloves, protective clothing.

^(*) For chemical resistances, please contact your De Neef Representative.