

POL 641 FR

Edition 2 / June 2013

Description:

POL 641FR is a formulated Polyol to be used in combination with MDI having a 1:1 volume mix ratio to be sprayed-in-place for thermal insulation.

This Polyol is a low-medium viscosity mixture of polyether polyols, fire retardants, activators (contains amine), stabilizer and HCFC 141b as blowing agent.

Applications:

This system is sprayed with high-pressure equipment, at a mixing ratio of 1:1 in volume. Its main application is the thermal insulation of building closings, houses (partitioning), industrial buildings, farms, ships, tanks and cool stores where a fast curing property is required.

POL 641 FR

Specification and typical properties

Appearance	Light red liquid
Viscosity at 25 ° C	approx. 500-520 mPa.s
Density at 25 ° C	approx. 1.16 g/cm ³

MDI

Specification and typical properties

Appearance	Dark brown liquid
Viscosity at 25 ° C	approx. 160-240 mPa.s
Density at 20 ° C	approx. 1.23 g/cm ³
NCO content	30.5 -32.5 % by wt.
Acidity max.	200 ppm HCl

Processing Conditions and performance (LAB TEST)

Product	Part By Weight	Cream Time (sec.)	Gel Time (sec.)	Free Rise Density Kg/m ³
POL 641FR	100	4-6	8-11	28-30
MDI	100			

Laboratory conditions:

Ambient temperature:	22-25 °C
Elevation:	1000 meters from sea level
Mixer speed:	2000 rpm
Iso/Polyol temperature	25 °C.

Typical Foam Properties

Item	Units	results
Applied Average Density	Kg/m ³	40
Comp. Strength	N/mm ²	0.122
Thermal Conductivity at 20°C	W/mK	0.0225
Closed cell content	%	>90
Dimesional Stability 24 hrs. at -14°C	%	<1

Shelf life Shelf life is guaranteed for 6 months.

Safety Information

Avoid direct skin contact as it may cause irritation/ blistering. If spilled over eyes should be rinsed with eyewash solution and cold water. If ingested, mouth should be washed with water and should not induce vomiting.

Preparation Before using, this polyol has to be mixed very well.

Packing POL 641 FR will be delivered in 220 kg net drums.

Storage

This product is very sensible to moisture and drums have to be closed very well. The recommended storage temperature is between +15° and +25° C. Polyol should not be stored below 15 ° C and Isocyanate not below 15 °C.
