

POL 644 FR

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Description & Applications:

POL 644 FR is a formulated Polyol to be used in combination with MDI, used as a thermal insulation by sprayed-in-place methods.

The system works with a volumetric ratio of 1:1.

This Polyol is a low viscosity mixture of various polyurethane raw materials & necessary additives and contains amine.

This system must be sprayed with high-pressure equipments and can be used for Walls, Roofs & Floors, where needed.

POL 644 FR

Specification and typical properties

Appearance
Viscosity at 25 ° C
Density at 25 ° C

Light Yellow liquid
approx. N.A mPa.s
approx. N.A g/cm³

MDI

Specification and typical properties

Appearance
Viscosity at 25 ° C
Density at 20 ° C
NCO content
Acidity max.

Dark brown liquid
approx. 160-240 mPa.s
approx. 1.23 g/cm³
30.5 -32.5 % by wt.
200 ppm HCl

Processing Conditions and performance (Lab test results)

Product	Part By Weight	Cream Time (sec.)	Tack Free Time (sec.)	Free Rise Density Kg/m ³
POL 644FR	100	3-4	5-7	40-43
MDI	100			

Laboratory conditions:

Ambient temperature: 22-25 °C
Elevation: 1000 meters from sea level
Mixer speed: 5000 rpm
Iso/Polyol temperature 22 ° C.



Typical Foam Properties

Item	Units	results
Applied Average Density	Kg/m ³	40
Comp. Strength	N/mm ²	N.A
Thermal Conductivity at 23°C	W/mK	N.A
Closed cell content	%	N.A
Dimesional Stability 24 hrs. at -14°C	%	N.A

Shelf life Shelf life is guaranteed for 6 months.

Safety Information

Avoid direct skin contact as it may cause irritations and/or blistering. If spilled over eyes, then it should be rinsed with plenty of water. If ingested, then the mouth should be washed with water and vomiting should not be induce.

Preparation Polyol has to be mixed very well before use.

Packing POL 644 FR will be delivered in 220 kg net drums.

Storage

This product is sensible to moisture and drums must be closed properly.
The recommended storage temperature is between +15°C and +25°C.
Polyol should not be stored below 5°C and Isocyanate not below 15°C.

