

# Product information

## Polyurethanes

## PU 8403

### FEATURES

- Methyl formate expanded
- Thermal insulation
- Slow reactivity

### COMPOSITION

- Part A: Polyol PU8403 A
- part B: Isocyanate PU8403 B



PU 8403 is a two-component, slow reactivity, very good thermal insulation polyurethane system, expanded with methyl formate.

### APPLICATIONS

- Designed heat insulation of vehicles.

### TYPICAL PROPERTIES

This data does not constitute the Product Sales Specifications. The values indicated refer to typical properties and are not to be understood as extreme minimum or maximum values. They do not constitute a guarantee of product conformity and do not relieve the buyer from the need to test the suitability of the products before use or placing them in his production cycle. Please contact your local sales representative to obtain the product specifications.

Property	Unit	Value
Color (Part A/Part B)	Visual	Straw / Brown
Density at 23°C (Part A/Part B)	g/cm <sup>3</sup>	1.12 / 1.22
Viscosity at 23°C (Parte A/Parte B)	mPa.s	340 / 200
Mix ratio A : B	pbw	100 : 112
Cream time	secs	25
Gel time	secs	240
End of expansion	secs	210
Tack-free time	secs	290
Free rise density	kg/m <sup>3</sup>	35

### SETTING

Mechanically mix Part A (Polyol) and part B (Isocyanate) at low speed before each withdrawal from the containers. The two components must be processed at a temperature between +20°C and +30°C. High temperatures increase the reaction rate, reducing the workability time.

### USE

A high pressure machine is preferred to mix the chemicals. The reactivity and free rise density will vary upon the polyol and isocyanate ratio and the exact temperature of the chemicals.

### HANDLING PRECAUTIONS

The information for a correct and safe handling of the products is contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks to health and the environment and for the suitable protective devices to be adopted. Share

the safety data sheets with all staff involved in the use of the products. Both polyol and Isocyanate contain METHYL FORMATE highly flammable product which generates pressure in containers. Handle with care in areas protected from static current and other sources of ignition.

### USABLE LIFE - STORAGE

The polyol is hygroscopic and must be protected from moisture by keeping the containers sealed when not in use.

Polyol and Isocyanate contain METHYL FORMATE highly flammable product which generates pressure in containers. Store in well sealed original containers, in ventilated areas, protected from static current and other sources of ignition, at temperatures between +15°C and +25°C. The isocyanate reacts with atmospheric humidity. Store in well sealed original containers, under inerting nitrogen, at temperatures between +15°C and +25°C. At low temperatures the isocyanate can

crystallize. Do not expose to temperatures exceeding +50°C to avoid the formation of insoluble solids and increase in viscosity. The reaction of isocyanates with water leads to the formation of insoluble ureas and carbon dioxide, with an increase in pressure in closed containers. Components must be stored indoors to protect the material from water ingress, frost and direct sun heat. In temperate conditions and in properly sealed containers, the shelf life of the isocyanate and polyol is 3 months.

## **PACKAGING**

The components are supplied in 200 liters drums. For other packaging please contact our sales department.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

## **LIMITED WARRANTY**

The information contained in this document is offered in good faith based on Chemix research and is believed to be accurate. However, as the conditions and methods of use of our

products are beyond our control, this information should not be used as a substitute for the tests that customers must first perform to ensure that Chemix products are fully satisfactory for their specific applications. The warranty is only applicable to the values indicated in the Product Sales Specifications. The sole and exclusive compensation for products with values that are out of specification is limited to the replacement of the product or the refund of the purchase price.

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