

# Product information

## Polyurethanes

# PU 8407

## FEATURES

- Expanded by Methyl formate
- Ratio 1 to 1 in Volume
- FRD 45g/l

## COMPOSITION

- Part A: Polyol PU8407 A
- part B: Isocyanate PU8407 B



Rigid, low density polyurethane foam, expanded by Methyl formate.

## APPLICATIONS

- Designed to produce thermal insulation, filling, low density technical items.

## 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	Yellow / Brown
Density at 23°C (Part A/Part B)	g/cm <sup>3</sup>	1.050 / 1.230
Viscosity at 23°C (Part A/Part B)	mPa.s	2240 / 210
Mix ratio A : B	pb volume	100 : 100
Mix ratio A : B	pb weight	100 : 120
Cream time	sec	25
String time	sec	210
Free rise density	kg/m <sup>3</sup>	45
Compressive strength @10%	kPa	130

## SETTING

Mechanically mix Part A (Polyol) at low speed before each withdrawal from the container. 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

It is preferable to use a high pressure machine to mix the components. The reactivity and free-expansion density will vary based on the polyol to isocyanate ratio and the exact temperature of the components.

## 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.

## USABLE LIFE - STORAGE

The polyol is hygroscopic and must be protected from moisture by keeping the containers sealed when not in use at temperatures between +15°C and +35°C. The isocyanate reacts with atmospheric humidity. Store in well sealed original containers, under inerting nitrogen, at temperatures between +15°C and +35°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 is 12 months, that of the polyol 6 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

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