

## PU 8683

### FEATURES

- Chemical resistance
- Abrasion resistance
- Tear resistance
- Hardness 83 Shore A

### COMPOSITION

- Amine PU8683 A
- Isocyanate PU8683 B



PU 8683 is a two-component castable polyurea with a hardness 83 Shore A, characterized by excellent tear and abrasion resistance.

### APPLICATIONS

- Designed to make durable elastic articles by casting, protective coatings.

### 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
Colour (Part A/Part B)	visual	Amber/Yellow
Density at 23°C (Part A/Part B)	g/cm <sup>3</sup>	1.00/1.09
Viscosity at 23°C (Part A/Part B)	mPa.s	2600/120
Mix ratio A : B	pbw	100 : 30
Pot life [150g at 23°C]	minutes	18
Gel time [150g at 23°C]	minutes	22
Demoulding [thickness 10mm at 23°C]	minutes	90
Polymer color	visula	Amber
Hardness	Shore	83 A
Tensile strength	MPa	6.6
Elongation at break	%	1100
Tear strength	N/mm	120
Linear shrinkage [500x50x10mm]	%	0.2

### HOW TO USE

Open both containers A and B and examine the components; if they show signs of crystallization, place them in an oven at 50-60°C until the crystals are completely melted. Mix Part A (amine) before each withdrawal from the container. The two components must be processed at a temperature between +20 and +30°C.

### MIXING

Mix the two components in the correct mixing ratio, at low speed, avoiding the inclusion of air and make sure that the material on the sides and bottom of the container is well mixed. To eliminate air bubbles, we recommend vacuum degassing the mixture before and after casting.

### CURING

The product can generally be processed within the times indicated above. The hardening time depends on the mass: thinner thicknesses require longer curing times. An high temperature of the product or of the environment lead to reductions in workability and hardening times. Contrariwise, low temperatures mean longer times.

### HANDLING PRECAUTIONS

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

data sheets with all the staff involved in the use of the products.

## **USABLE LIFE - STORAGE**

Both the components must be stored in the original unopened containers at a temperature between +10°C and +35°C. Isocyanates can crystallize at low temperatures. Bring the components to 20-25°C before use. The two components are sensitive to humidity. Be sure to close containers tightly after use. Both the components, if stored in the specified conditions, have a shelf life of 6 months from the date of manufacture.

## **PACKAGING**

The components are supplied in 25 liter cans, 200 liter drums or 1000 liter tanks. 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**

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Chemix Srl Via Berlinguer 8, 21010 Golasecca (Italy). Phone +39(0)331959373 [info@chemix.it](mailto:info@chemix.it)