

Product Information

Building



PU 8650

FEATURES

- Dimensional stability
- Low shrinkage
- Mechanical resistance
- Hardness 50 Shore A

COMPOSITION

- Polyol PU8650 A
- Isocyanate PU8650 B



PU 8650 is a two-component TDI-based elastomer with a hardness of 50 Shore A characterized by high mechanical and chemical resistance, dimensional stability, and good elastic recovery. Available in gray color on request.

APPLICATIONS

- Designed to create flexible matrices for stamped plaster, molds, prototypes, design 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
Colour (Part A/Part B)	visual	Transparent yellowish
Density at 23°C (Part A/Part B)	g/cm ³	1.00/1.03
Viscosity at 23°C (Part A/Part B)	mPa.s	244/6200
Polymer color	visual	Transparent yellowish
Mix ratio A : B	pbw	100 : 100
Gel time [150g at 23°C]	minutes	17
Demoulding at 23°C	hours	16
Full cure	days	5
Hardness	Shore	45
Tensile strength	MPa	2.85
Elongation at break	%	1000
Tear strength	N/mm	55.8
Linear shrinkage [500x50x10mm]	%	0.08

MODEL/MOLD

Make sure the mold or model is clean and dry, free of moisture. Treat the surface with a suitable release agent. Porous models must be painted or treated with PVA-type sealers.

HOW TO USE

Mix Part A (Polyol) at low speed 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 obtain parts free from air bubbles, degass in vacuum after mixing and, in the case of complex shapes, even 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

Polyol and isocyanate 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. Polyol and isocyanate, if stored in the specified conditions, have a shelf life of 12 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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