

EPAFLEX

POLYURETHANES

THE CHEMISTRY OF OUR PREPOLYMERS

Epaflex was established as a system house specialised in producing polyurethane systems for the footwear industry. It has since used polyurethane to make all manner of products, from TPUs to the components of filters, and recently set up its C.A.S.E. division. The company has, over time, specialised in the production of prepolymers.

Polyurethanes are versatile and can, therefore, be used in formulations for a variety of applications.

The main fields of use are those of footwear, automotive, coatings, adhesives, sealants and elastomers.

The Epadur product range comprises prepolymers based on pure and polymeric MDI, prepolymers based on Uretonimine and Carbodiimide MDI, and ortho-para prepolymers.

The NCO content is typically medium-high. Our long track record and ongoing presence in many foreign markets are also proof of the quality of our products.

ISO 9001 certification provides a further guarantee of the excellence of our processes.



- Standard products typically used for single and dual component systems
- Products for low-functionality polyureas
- Products for high-functionality polyureas for more rigid systems
- Products devised for systems requiring fast polymerisation
- Polymers modified according to required level of reactivity
- Products typically used for applications requiring good adhesive properties
- Low viscosity products that permit good penetration and wetting
- Products used as crosslinkers for adhesives and coatings
- Products used for coating, with excellent breathability for flat surfaces
- Products for preparing various types of single components
- Products modified with Uretonimine to improve stability at low temperatures
- Products used to guarantee excellent dimensional stability

Epaflex was established in 1991 as a system house specialised in the production of polyurethane systems for the footwear industry.

Over the years, Epaflex's business has expanded further and diversified, first with the second line of products, Thermoplastic polyurethane (TPU) granules, and then with the production of Polyureas, Polyaspartates, Prepolymers and spray foams for insulation.

Together with Elachem SpA, Epaflex forms part of an industrial group which recently set up a major chemical plant for the production of resins.

The polyesters used for Epaflex's prepolymers are produced by Elachem to permit precise control of the quality of the raw materials and a level of competitiveness to meet the needs of the market..

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The **EPADUR** line allows many requirements to be met, including:

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Isocyanic PREPOLYMERS

EPADUR	Descrizione	NCO (%)	Viscosity (cPs a 25°C)	Equivalent weight	Density (Kg/cm ³)	Use
AROMATIC						
EPADUR AG 7	Low reactivity polyether base aromatic prepolymer	7,0 (+/- 0,3)	3650 - 3850	600	1,08	Production of EPDM agglomerates, rubber and pebbles
EPADUR AG 1020	Polyether base aromatic prepolymer	10,0 (+/- 0,3)	1800 - 3000	420	1,08	
EPADUR AG 10	Modified viscosity polyether base aromatic prepolymer	10,0 (+/- 0,3)	3000 - 4000	420	1,09	
EPADUR AG 10-1 SA	Modified viscosity polyether base aromatic prepolymer	10,3 (+/- 0,3)	2100 - 3100	407	1,09	
EPADUR AG 15	Modified viscosity polyether base aromatic prepolymer	15,0 (+/- 0,3)	1300 - 1500	280	1,11	
EPADUR PO 15	Modified viscosity polyether base aromatic prepolymer	15,0 (+/- 0,3)	500 - 800	280	1,12	Production of polyurethane and polyurea systems
EPADUR PO 15 A 1	Polyether base aromatic pre-polymer	15,0 (+/- 0,3)	900 - 1300	280	1,12	
EPADUR PO 90.10	Modified viscosity polyether base aromatic prepolymer	15,0 (+/- 0,3)	350 - 650	280	1,12	
EPADUR PO 5135	Modified viscosity polyether base aromatic prepolymer	15,1 (+/- 0,3)	500 - 900	278	1,12	
EPADUR ET 101	Polyether base aromatic pre-polymer	18,0 (+/- 0,5)	1200 - 1600	233	1,12	
EPADUR CR 16	Polyether base aromatic pre-polymer	16,3 (+/- 0,3)	750 - 1050	258	1,05	Production of polyurethane and polyurea systems with high chemical resistance
EPADUR ET 20 A 1	Polyether base aromatic pre-polymer	20,0 (+/- 0,5)	600 - 900	210	1,13	Production of polyurethane systems for footwear
EPADUR 01	Polyether base aromatic pre-polymer	20,5 (+/- 0,5)	1200 - 1600	205	1,13	
ALIPHATIC						
EPADUR AL 5	Polyether base aliphatic pre-polymer	5,0 (+/- 0,3)	10000 - 16000	840	1,10	Production of EPDM agglomerates, rubber and aggregates
EPADUR AL 10	Polyether base aliphatic pre-polymer	10,0 (+/- 0,3)	5000 - 6000	420	1,10	Production of polyurethane and polyurea systems
EPADUR AL 15	Polyether base aliphatic pre-polymer	15,3 (+/- 0,3)	1600 - 3600	275	1,11	



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50 ml
 In 20°C
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