

Tailor-made formulations

We have a wide range of elastomer systems based on Polyurethane or Polyurea/ Urethane (15 shore A to 85 shore D) based on :

- **FREE TDI**
- **MDI**
- **PPDI**
- **Cyanate ester**
- **Aliphatic.**

Our formulations in 1 or 2 components version contain : No **CMR Product**, No **TOXIC Product** and no **SOLVENT**.

HOT SYSTEMS:

- **Free TDI** : 30 - 80 shore A : processed in 200 kg Batch ,these systems are characterized by a very long pot life : 30 min – System for manufacturing big parts.
- **PPDI– Polycaprolactone** : 90-92-95 shore A – Our Adilithe®8 are characterized by a very low free PPDI (< 0,5%) and have superior mechanical and dynamical properties to Vulkollan® and Adiprene®.
- **MDI Polyester Systems:** 2 systems 3 components : one for 40 to 60 shore A and another for 70 to 95 shore A

HIGH TEMPERATURE SYSTEMS

ADILITHE®HT : system based on cyanate ester with an excellent resistance to high temperatures up to 180°C , this system is comparable to Viton®

RIM SYSTEMS :

ISOLITHE®: 85 shore D : system with an excellent hydrolysis resistance and very good behaviour to high temperature up to 150°C.

COLD SYSTEMS:

- **ADILITHE®BM 55** (55 shore A) : System without mercury salt for concrete molds processed by low pressure dispensing machine or manually.
- **ADILITHE® FG40 and ADILITHE® F60** : Systems 40 to 60 shore A processed by manually for prototyping of plaster parts.

COATING SYSTEM :

ADICOAT® 60 to 95 shore A : system one component with very good resistance to solvents, to oils, an excellent fire resistance and a high tension surface.

MERYLITHE

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Tailor-made formulations adapted to your process

All our formulations and elastomers systems based on **FREE TDI, MDI, PPDI, Cyanate ester and Aliphatic** have been developed in agreement with the customers conditions schedules in order to meet their requirements in terms of :

- **Chemical Process,**
- **Mechanical and chemical properties**
- **Technical process**

PROCESS :

- Pot life
- Viscosity
- Demoulding time
- Number of components
- Chemical compositions : formulation compatibles with **REACH** program: no **CMR Product**, no **TOXIC Product** and no **SOLVANT**

MECHANICAL and CHEMICAL PROPERTIES:

- Hardness : 15A to 85 D
- Abrasion
- Compression set
- Impact strength
- Resistance to solvents and UV
- Resistance to high temperatures
- **Dynamic, barriers and acoustic properties**

TECHNICAL PROCESS:

Process / Formulations	Batch / Reactor	Hot casting	Cold casting	Compression	RIM	Coating with scrapper
TDI Adilithe®	x	x				
MDI / PPDI Adilithe®	x	x				
Concrete Mold Adilithe®BM, FG40 and F60	x		x			
Aliphatic Isolithe®					x	
Cyanate ester High T°C Adilithe® HT		x		x		
single component Adicoat®						x