

**EPAFLEX**   
POLYURETHANES spa

**C.A.S.E.**  
DIVISION



Coating - Adhesives - Sealants - Elastomers

We are a chemical company specialised in the production of PU and TPU polyurethane systems, prepolymers and polyols. The range of products in the C.A.S.E. (Coating – Adhesives – Sealants – Elastomers) division of Epaflex Polyurethanes has been designed with the idea of contributing to the world of construction and building and industrial maintenance with strong and modern technological and economic concepts.

Epaflex has taken advantage of its remarkable and long experience in polyurethanes, developing it with the needs of the building market in mind with special focus on efficiency and ease of use of its products.

The products in the C.A.S.E. division are the result of an innovative technology based on polymers and special formulations that has led to materials without emissions, volatile organic compounds or greenhouse gases.

These materials have faster application times, not much time is required for strengthening, and a construction site that is open for less time costs less and contributes positively to the environment.

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

# EPAFLEX POLYURETHANES spa



**Our contribution  
of ideas and experiences**

**to the civil and industrial construction and maintenance world.**

# The families of products in the **C.A.S.E** division are:

- **EPAPROOF:**

### **Elastomers and liquid coatings**

Moisture-resistant and flexible products, resistant to chemicals and abrasion, a few seconds or minutes to harden even in sub-zero temperatures.

Typical applications: industrial floors, car park roofing, roofing and balconies, refineries, pipes, sewage treatment plants, encapsulation of asbestos, production plants, mining, off-shore platforms, steel bridges, marine and many more.

- **EPACRETE / EPACOLOR:**

### **Primers and finishes**

Primer for strengthening and adhesion promoters for all surfaces.

Finishes in high quality resin. Resin decks without joints/welds with the possibility of continuous application on any support and with unusual profiles. High mechanical properties, waterproof, fire resistant and abrasion resistant.

- **EPASEAL / EPALINING / EPABIND:**

### **Sealants for joints and grout lines, elastomeric film for technical surfaces, polyurethane solution for aggregates**

Epaseal is used as a multifunctional joint, such as a sealing material and a filler.

It can provide a flexible gasket, durable, resistant to atmospheric agents for all types of building joints.

The rapid process of maturation and insensitivity to moisture allows faster installation.

Epalining Polyurethane resins for cement surfaces.

Epabind are Polyurethane solutions for rubber and ballast agglomerates.

- **EPAFUR:**

### **Closed - or open-cell polyurethane spray foams**

These are very versatile materials that allow you to provide solutions to many problems regarding insulation in buildings. They combine high thermal insulation, water resistance and structural mechanical properties. Foam insulation in a continuous coat guarantees energy savings of about 30% compared to a building with poor insulation. All Epafur foams follow the concept of respect for the Epaflex environment and do not contain gases or blowing agents other than water. The range also includes foams for injecting into air gaps and for ground consolidation.



**A look at our solutions!**





### EPAPROOF FPCS 07

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system applied by high-pressure spray equipment to protect metals and polyurethane insulation foams and to waterproof cement surfaces and damaged coatings, GRP and metal surface.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 8 -12 sec.
- Hardness: 38 - 42 ShD
- Recommended Thickness: 2 mm
- Consumption rate: 2.0 kg/m<sup>2</sup>

### EPAPROOF FPCS 08

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system applied by high-pressure spray equipment to protect metals and polyurethane insulation foams and to waterproof cement surfaces, GRP and metal surface.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 4 - 6 sec.
- Hardness: 46 - 50 ShD
- Recommended Thickness: 2 mm
- Consumption rate: 2.0 kg/m<sup>2</sup>



### EPAPROOF FPCS WFC

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system for contact with food or drinking water, applied by high-pressure spray equipment to protect metals, polyurethane insulation foams and to waterproof cement surfaces, concrete tanks, GRP and metallic tanks.

#### TECHNICAL DATA:

- Colour: NEUTRAL
- Packaging: 205 kg + 225 kg
- Gel Time: 4 - 6 sec.
- Hardness: 46 - 50 ShD
- Recommended Thickness: 2 mm
- Consumption rate: 2.0 kg/m<sup>2</sup>
- Compliant with MD 174/04
- Compliant with EU Reg. 10/2011

### EPAPROOF FPCS 29

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system with particularly low module, applied by high pressure spray equipment to protect metals, wood, EPS, polyurethane insulation foams, water-proof cement surfaces and damaged coating.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 30 - 40 sec.
- Hardness: 45 - 55 ShA
- Recommended Thickness: 2 mm
- Consumption rate: 2.0 kg/m<sup>2</sup>



### EPAPROOF FPCS 94

#### Pure aromatic polyurea coating.

Fire resistant, aromatic polyurea elastomeric system, applied by high-pressure spray equipment to protect metals, cement surfaces, wood, EPS, polyurethane insulation foams and GRP.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 6 - 8 sec.
- Hardness: 35 - 40 ShD
- Recommended Thickness: 2.5 mm
- Consumption rate: 2.75 kg/m<sup>2</sup>
- Euroclass B - s2,d0 EN 13501 1/2009
- B Roof (t4) EN 13501 - 5/2005

### EPAPROOF FPCS CORE 3

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system with excellent chemical resistance, applied by high-pressure spray equipment to all surfaces that have to be protected against chemical agents.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 190 kg + 225 kg
- Gel Time: 4 - 7 sec.
- Hardness: 48 - 52 ShD
- Recommended Thickness: 2.2 mm
- Consumption rate: 2.50 kg/m<sup>2</sup>



### EPAPROOF FPCS 02

#### Pure aromatic polyurea coating.

Pure aromatic polyurea elastomeric system applied by high-pressure spray equipment or special devices that allow use of the product in cartridges. Particularly suitable for protecting metals, cement surfaces, wood, EPS and GRP.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 75 - 85 sec.
- Hardness: 46 - 50 ShD
- Recommended Thickness: 1.8-2.5mm

### EPAPROOF STS 06

#### Hybrid aromatic polyurea coating.

Dual component hybrid aromatic elastomeric system applied by high-pressure spray equipment to protect and waterproof cement surfaces, wood, EPS and polyurethane insulation foams.

#### TECHNICAL DATA:

- Colour: GREY
- Packaging: 205 kg + 225 kg
- Gel Time: 5 - 7 sec.
- Hardness: 38 - 42 ShD
- Recommended Thickness: 2.5 mm



### EPAPROOF FCA 900

#### Aliphatic polyurea coating.

Aliphatic pure polyurea elastomeric system with excellent yield and resistance to UV, applied by high-pressure spray equipment to protect cement, wood, EPS, polyurea surfaces and GRP.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 3 - 5 sec.
- Hardness: 60 - 70 ShD

### EPAPROOF FCA 930

#### Aliphatic polyurea coating.

Aliphatic pure polyurea elastomeric system with excellent yield and resistance to UV, applied by high-pressure spray equipment, especially suitable for protecting metals and GRP.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Gel Time: 30 - 35 sec.
- Hardness: 60 - 70 ShD



### EPAPROOF FPGS 40

#### Aromatic polyurea coating

Dual component coating for manual application, particularly suitable for protecting and waterproofing substrates such as marble, tiles, cement surfaces, metals and wood, for flooring, swimming pools and fountains, and for providing an anti-corrosion coating for metals.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 10 kg +20 kg
- Processing time: 10 - 15 min
- Hardness: 45 - 50 ShD
- Consumption rate: 1.0 kg/m<sup>2</sup>



### EPALINING CAPS 01

#### Aromatic polyurethane coating.

Self-levelling, fluid, dual component aromatic polyurethane system, particularly suitable for protecting metals, cement support structures, flooring and fibreglass, and in naval applications for decks and below deck areas.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 20 kg + 4 kg
- Processing time: 20 - 40 min
- Hardness: 75 - 80 ShA
- Consumption rate: 1.2 kg/m<sup>2</sup>

### EPALINING CAPS 01LV/CAPS 10LV

#### Aromatic polyurethane coating.

Self-levelling, fluid, dual component aromatic polyurethane system, particularly suitable for protecting metals, cement support structures, flooring and fibreglass, and in naval applications for decks and below deck areas.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 20 kg + 4 kg
- Processing time:  
**CAPS 01 LV** : 45 - 60 min  
**CAPS 10 LV** : 75 - 90 min
- Hardness: 75 - 80 ShA
- Consumption rate: 1.2 kg/m<sup>2</sup>

### EPALINING CAPS AE

#### Aromatic polyurethane coating.

Self-levelling, self-extinguishing, fluid, dual component aromatic polyurethane system, particularly suitable for protecting metals, cement support structures, flooring and fibreglass, and in naval applications for decks and below deck areas.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 20 kg + 4 kg
- Processing time: 35 - 45 min
- Hardness: 78 - 82 ShA
- Consumption rate: 1.2 kg/m<sup>2</sup>
- Compliant with EN 45545 - 2 R10

**Tailored**  
**products**  
**for any infiltration!**



### **EPAFUR SFRS 1350**

#### **Water-based closed-cell polyurethane foam.**

Rigid dual component closed-cell spray polyurethane foam with a density of about 35 kg/m<sup>3</sup>, for use in the construction of buildings for the insulation of parts like walls, ceilings, roofs, air barriers, suspended ceilings, pipes, storage rooms and cold rooms.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 4 sec.
- Density: 32 - 35 kg/m<sup>3</sup>
- $\lambda_i = 0.023$  W/mK
- $R_D = 2.94$  (m<sup>2</sup> K/W) sp.100 mm

### **EPAFUR SFRS 402**

#### **Water-based closed-cell polyurethane foam.**

Rigid dual component closed-cell spray polyurethane foam with a density of about 40 kg/m<sup>3</sup>, suitable for insulation in the building industry, under-roof and under-tile insulation, walls, ceilings, roofs, air barriers, suspended ceilings, pipes, storage rooms and cold rooms.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 4 sec.
- Density: 38 - 42 kg/m<sup>3</sup>
- $\lambda_i = 0.023$  W/mK
- $R_D = 2.38$  (m<sup>2</sup> K/W) sp.80 mm



### **EPAFUR SFRS 453**

#### **Water-based closed-cell polyurethane foam.**

Rigid dual component closed-cell spray polyurethane foam with a density of about 45 kg/m<sup>3</sup> and good compressive strength, suitable for insulation in the building industry, under-roof and under-tile insulation, walls, ceilings, roofs, air barriers, suspended ceilings, pipes, storage rooms and cold rooms.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 4 sec.
- Density: 41 - 45 kg/m<sup>3</sup>
- $\lambda_i = 0.023$  W/mK
- $R_D = 2.38$  (m<sup>2</sup> K/W) sp.80 mm

### **EPAFUR SFRS 601**

#### **Water-based closed-cell polyurethane foam.**

Rigid dual component closed-cell spray polyurethane foam with a density of about 60 kg/m<sup>3</sup> and excellent compressive strength, for use in the construction of buildings for the insulation of parts like walls, ceilings, roofs, air barriers, suspended ceilings, pipes, storage rooms and cold rooms.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 4 sec.
- Density: 54 - 60 kg/m<sup>3</sup>
- $\lambda_i = 0.023$  W/mK
- $R_D = 1.49$  (m<sup>2</sup> K/W) sp.50 mm

**How**  
**to become**  
**resistant to cold!**



## POLYURETHANE FOR INSULATION



### **EPAFUR CFRS 25 WF**

#### **Water-based open-cell polyurethane foam**

Rigid dual component open-cell polyurethane foam for casting, for heat insulation.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 4 sec.
- Density: 9 - 11 kg/m<sup>3</sup>
- $\lambda_D = 0.0337$  W/mK
- $R_D = 2.96$  (m<sup>2</sup> K/W) sp.100 mm



### **EPAFUR SFRS 255 WF**

#### **Water-based open-cell polyurethane foam**

Rigid dual component open-cell spray polyurethane foam for heat insulation.

#### **TECHNICAL DATA:**

- Packaging: 220 kg + 250 kg
- Processing time: 3 - 5 sec.
- Density: 11 - 13 kg/m<sup>3</sup>
- $\lambda_D = 0.0337$  W/mK
- $R_D = 2.96$  (m<sup>2</sup> K/W) sp.100 mm

### **EPAFUR SFR 2552 E**

Water-based closed-cell polyurethane foam, with fire classification in Euroclass E.

## POLYURETHANE FOR SEALING e GUARNIZIONI

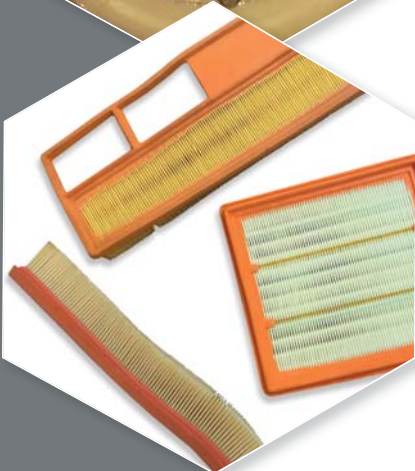


### **EPASEAL S125 / S145 / S175**

Dual component sealant system for external joints, suitable for sticking to cement and steel. Particularly suitable for motor vehicle flooring.

#### **TECHNICAL DATA:**

- Colour: RAL
- Packaging: 20 kg + 20 kg
- Processing time: 25 - 30 sec.
- Hardness: **S125** 25 - 30 ShA
- Hardness: **S145** 40 - 50 ShA
- Hardness: **S175** 70 - 80 ShA



### **ET 220 SCB 1002 P**

Dual component polyurethane system suitable for the production of an expanded and flexible material.

Particularly suitable for the production of "panel" type air filter gaskets for motor vehicles.

#### **TECHNICAL DATA:**

- Packs: 200 kg + 225 kg
- Free density: 0.27 - 0.31 g/m<sup>3</sup>
- Hardness: 70 - 80 ShA



### EPACRETE EPAPOX BUS

#### Epoxy primer for damp surfaces.

Three component, solvent free system particularly suitable for enhancing adhesion with and impregnation of damp concrete surfaces.

#### TECHNICAL DATA:

- Colour: GREY
- Packaging: 3.3 kg + 6.7 kg + 20 kg
- Processing time: 60 min
- Consumption rate: 2.0 kg/m<sup>2</sup>

### EPACRETE EPAPOX 22

#### Filled epoxy primer.

Filled solvent free system for enhancing adhesion and consolidation, based on modified epoxy resin and special hardeners, and filler. Particularly suitable for cement surfaces.

#### TECHNICAL DATA:

- Colour: LIGHT GREY
- Packaging: 20 kg + 5 kg
- Processing time: 100 - 200
- Consumption rate: 2.0 kg/m<sup>2</sup>

### EPACRETE EPAPOX 25

#### Epoxy primer.

Solvent free system for enhancing adhesion, based on modified epoxy resin and special hardeners. Particularly suitable for metal surfaces, marble, GRP and wood, and for the consolidation of cement surfaces..

#### TECHNICAL DATA:

- Packaging: 20 kg + 10 kg
- Processing time: 240 - 270 min
- Consumption rate: 2.0 kg/m<sup>2</sup>



### EPACRETE OLV 201

#### Dual component polyurethane primer.

A system particularly suitable for the preparation of cement surfaces.

#### TECHNICAL DATA:

- Colour: AMBER
- Packaging: 20 kg + 20 kg
- Processing time: 40 - 60 min
- Consumption rate: 2.0 kg/m<sup>2</sup>

### EPACRETE OLV 13.30

#### Single component polyurethane primer.

Solvent-based system particularly suitable for enhancing adhesion for the laying of polyurea and polyurethane.

#### TECHNICAL DATA:

- Colour: AMBER
- Packaging: 20 kg
- Processing times: up to 9 hours
- Consumption rate: 2.0 kg/m<sup>2</sup>

## BINDER



### EPABIND 01/4

Solvent-free dual component polyurethane system particularly suitable for the consolidation of rail ballast.

#### TECHNICAL DATA:

- Colour: NEUTRAL
- Packaging: 50 kg + 33.5 kg
- Processing time: 10 - 20 min
- Hardness 58 - 62 ShD



### EPACOLOR FPUSPA

#### Acrylic polyurethane finish.

Solvent-based aliphatic system to protect aromatic polyurea and polyurethane coatings against UV.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 21.5 kg + 3.5 kg
- Processing time: 15 - 30 min
- Consumption rate: 0.85 kg/m<sup>2</sup>

### EPACOLOR FPHS 17

#### Aliphatic finish.

Elastomeric system based on aliphatic isocyanates and special amines for laying transparent and coloured coatings to protect and waterproof substrates whose aesthetic properties must be retained.

UV Resistant for use on cement, metals, marble, wood and GRP.

#### TECHNICAL DATA:

- Colour: transp. and RAL
- Packaging: 15 kg + 10 kg
- Processing time: 45 - 50 min
- Consumption rate: 0.50 kg/m<sup>2</sup>



### EPACOLOR RSPS 825

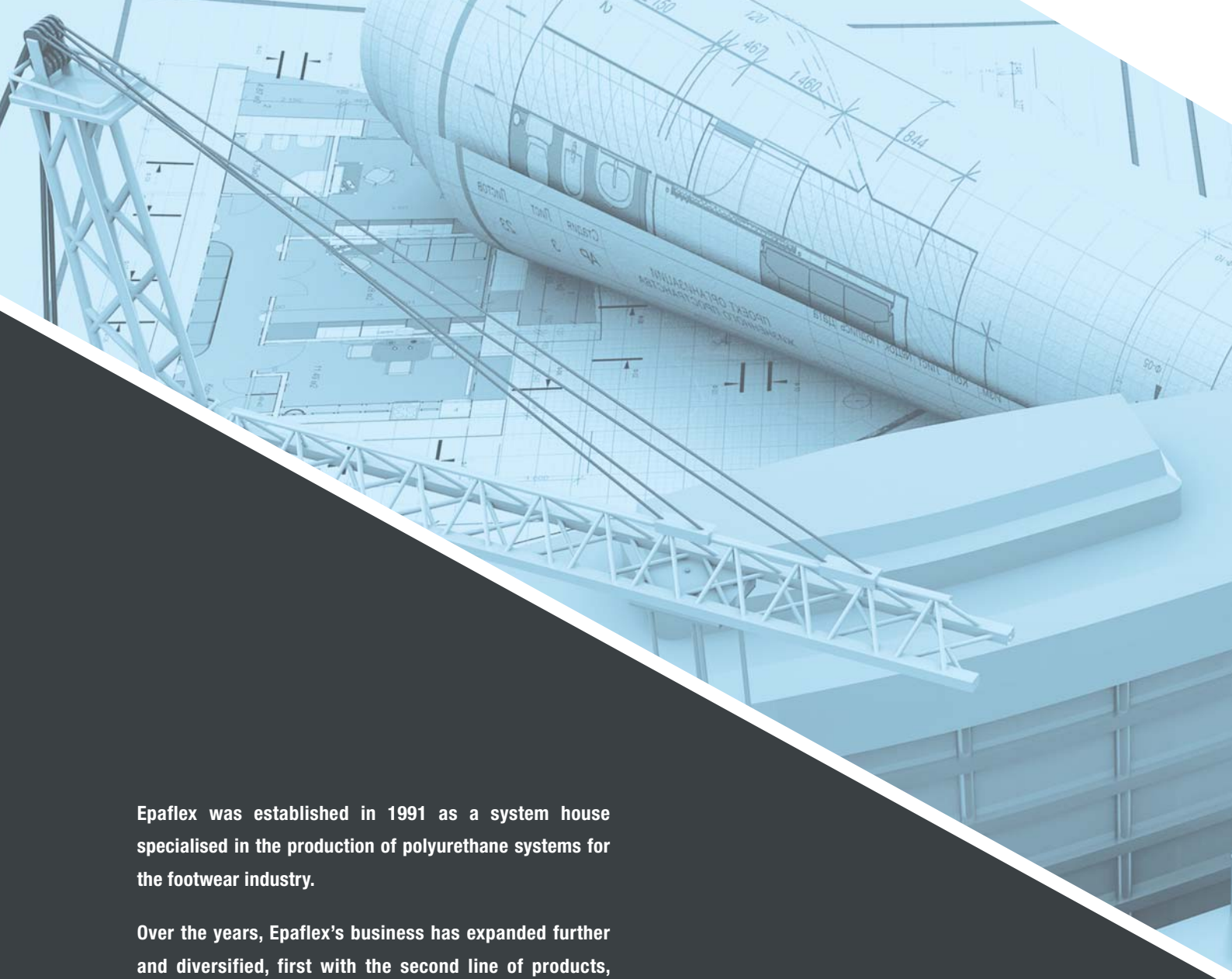
#### Aromatic finish.

Dual component aromatic hybrid elastomeric system applied by high-pressure spray equipment for EPS coatings for stage design and the finishing sector.

#### TECHNICAL DATA:

- Colour: RAL
- Packaging: 205 kg + 225 kg
- Processing time: 8 - 12 sec.
- Hardness: 60 - 65 ShD

Contact us  
**We will be**  
at your disposal!



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.

All the polyesters used for Epaflex's spray foams 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.

**EPAFLEX**   
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