

Advanced
elastomeric
thermal
and acoustic
insulation
materials

 ENGLISH

PRODUCT OVERVIEW



**UNION
FOAM**

INSULATION MATERIALS.
OUR WORLD.
FOR A BETTER WORLD.

OUR HISTORY

Union Foam represents the current evolution of a Company named **IRG Italia S.p.A**, which was founded in **1960** and specialized in recycled rubber products. In 1978 Union Foam was the first Italian Company to manufacture closed cell elastomeric foam for thermal insulation materials, for use in commercial, institutional and industrial applications. In **1988** the company name was changed to **Union Foam S.p.A** to signify that it was a thermal and acoustic insulation manufacturer.

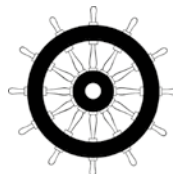
Today, Union Foam has more than 40 years' experience of manufacturing Flexible Elastomeric Foams and has built upon this **expertise** and **innovation** to become a major player in the international market for FEF, who is constantly growing and expanding its product range.

EUROBATEX[®] insulation products were originally developed to provide condensation control on commercial refrigeration and chilled water pipework. Its ability to reduce heat loss and assist energy conservation particularly when space is tight is now well known and widely used. With specialised formulations, innovative facings and products optimised for acoustic insulation the Eurobatex range is **employed in a wide range of applications** including residential and commercial buildings, shipyards, railways, the Oil & Gas industry and other industrial sectors.

EUROBATEX[®] products are **certified** in compliance with International Standards, manufactured according to the highest quality standards, and increasingly by taking ecological and environmental issues into account.

The production site is designed to be versatile and to facilitate a customer oriented attitude. This enables Union Foam Spa to be present in many insulation markets. The Company and their products are strictly "**made in Italy**" but focused on the wider world.

CERTIFICATES AND ASSOCIATIONS



FIELDS OF APPLICATION LEGEND



Industrial



Solar/High temperature



Building



Marine



Heating & Plumbing



Railways



Air Conditioning



Oil & Gas



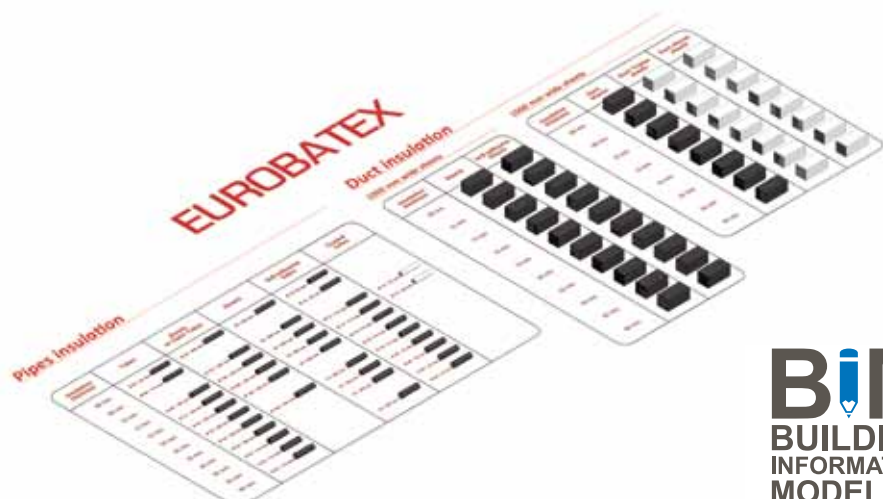
Refrigeration



Outdoor applications

AVAILABLE AT UNIONFOAM.IT

- Updated **technical documentation** and **DoP**
- Eurobatex **BIM** digital models for Revit
- Subscription to **Eurobatex News**
- **UNIONTOOL**, Eurobatex thermal insulation calculation program suite
- Installation **Manual**



EUROBATEX®



High performance tubes and sheets for the thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF)
λ at 0 °C:	Pipes: thk. ≤ 25 mm ≤ 0.033 W/m-K - thk. > 25 mm ≤ 0.035 W/m-K Sheets: thk. ≤ 32 mm ≤ 0.033 W/m-K - thk. > 32 mm ≤ 0.034 W/m-K
μ:	Pipes: thk. ≤ 19mm ≥10000 - thk. > 19mm ≥7000 Sheets: thk. ≤ 25mm ≥10000 - thk. > 25mm ≥7000
EUROCLASS	Pipes: B ₁ - s2,d0 - Sheets thk. ≤ 50mm: B - s3,d0 - Sheets thk. > 50mm: E Sheets for linear application Ø ≤300 mm, thk. ≤32mm: B ₁ - s2,d0



EUROBATEX® SA



Slit self-adhesive (self-seal) Eurobatex tubes for a quicker and easier installation



APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF)
λ at 0 °C:	thk. ≤ 25 mm ≤ 0.033 W/m-K thk. > 25 mm ≤ 0.035 W/m-K
μ:	thk. ≤ 19mm ≥10000 thk. > 19mm ≥7000
EUROCLASS	B ₁ - s2,d0

EUROBATEX® R

Eurobatex tubes co-extruded with a scratch and UV resistant protective film

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF) coated with a white polymeric film (Black coating available on demand)
λ at 0 °C:	≤ 0.033 W/m-K
μ:	≥ 10000
EUROCLASS	E _t



EUROBATEX® GLASTEC

Eurobatex tubes and sheets with an external covering to improve fire performance and ensure low smoke production. Especially suitable for railway applications



APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF) covered with woven Glass Fibre cloth which has either a black or a matt aluminium coating surface finish
λ at 0 °C:	≤ 0.033 W/m-K
μ:	≥ 10000
EUROCLASS	Pipes: B ₁ - s1,d0 - Sheets: B - s2,d0

EUROBATEX® AT

Tubes and sheets with a formulation having an excellent resistance to UV radiation and also specifically designed for use at high operating temperatures

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell Flexible Elastomeric Foam (FEF)
λ at 40 °C:	≤ 0.042 W/m·K
μ:	-
EUROCLASS	E



EUROBATEX® AT R

Eurobatex AT tubes co-extruded with a protective film, which improves mechanical strength and weather resistance

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam covered with a black thermoplastic film
λ at 40 °C:	≤ 0.042 W/m·K
μ:	≥ 10000
EUROCLASS	E ₁

EUROBATEX® HF



Halogen free tubes and sheets developed for marine and rail applications. Also suitable for many applications where improved smoke and toxicity characteristics in case of fire are required

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF) formulated without Halogens (Chlorine, Bromine, Fluorine and PVC free)
λ at 40 °C:	≤ 0.040 W/m·K
μ:	≥ 2000
EUROCLASS	Pipes: D ₁ - s2,d0 - Sheets thk. 6-25 mm: D - s3,d0 - Sheets thk. 32 mm: E Sheets for linear application Ø ≤ 300 mm, thk. ≤ 32mm: B ₁ - s2,d0



EUROBATEX® HIGH TECHNOLOGY

Eurobatex HF tubes and sheets with external jacketing to improve fire performance. Suitable for marine applications

APPLICATIONS	
TYPE OF MATERIAL	Halogen free, Black, Closed Cell Flexible Elastomeric Foam (FEF) covered with woven Glass Fibre cloth which has either a black or a matt aluminium coating surface finish. It does not contain Halogens (Chlorine, Bromine, Fluorine and PVC free)
λ at 40 °C:	≤ 0.040 W/m·K
μ:	≥ 10000
EUROCLASS	Pipes: B ₁ - s1,d0 - Sheets: B - s2,d0



EUROBATEX® DUCT



Self-adhesive Eurobatex Sheets 1500 mm width: designed to facilitate quicker insulation of large ducts and other HVAC plant and equipment. Also available in a pre-covered version

APPLICATIONS	
TYPE OF MATERIAL	1500 mm wide Black, Closed Cell, FEF sheet with a self-adhesive backing. Available also with a 3 layer TRIPLEX coating (comprising PET, Aluminium Foil and PE film) or an ALU NET (screened aluminium) jacketing
λ at 0 °C:	≤ 0.033 W/m·K
μ:	DUCT ≥ 7000 - TRIPLEX and ALU NET ≥ 10000
EUROCLASS	DUCT: B - s3,d0 - TRIPLEX and ALU NET: E



EUROBATEX® ISOLTEC

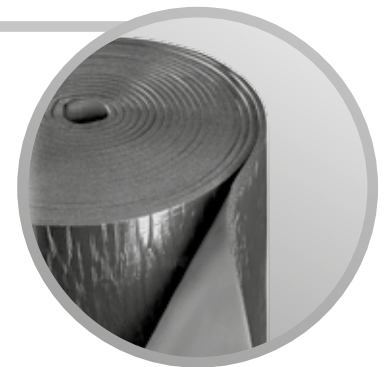
Pre-covered Eurobatex tubes and sheets, a product with a high mechanically resistant surface; aesthetically pleasing and suitable for outdoor applications

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell Flexible Elastomeric Foam (FEF) covered with a 3 layer jacketing comprising a base layer of PVC, Aluminium Foil and a transparent UV resistant surface coating
λ at 0 °C:	Pipes: thk. ≤ 25 mm ≤ 0.033 W/m·K - thk. > 25 mm ≤ 0.035 W/m·K Sheets: thk. ≤ 32 mm ≤ 0.033 W/m·K - thk. > 32 mm ≤ 0.034 W/m·K
μ:	≥ 10000
EUROCLASS	Pipes: C ₁ - s2,d0 - Sheets: C - s3,d0

EUROBATEX® UV PROTECTION

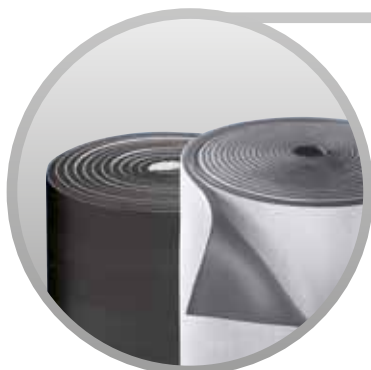
Pre-covered Eurobatex sheets, a product with a UV resistant flexible jacketing; suitable for outdoor applications.

APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF) covered with a Black, UV resistant polyolefinic film
λ at 0 °C:	thk. ≤ 32 mm ≤ 0.033 W/m·K - thk. > 32 mm ≤ 0.034 W/m·K
μ:	≥ 10000
EUROCLASS	E



EUROBATEX® PEN/PEAL

Eurobatex sheets covered with a layer of expanded polyethylene foam and a decorative finish, suitable for the insulation of chillers and tanks and various HVAC applications



APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam covered with a 3 mm thick layer of reticulated polyethylene foam which has an embossed surface finish in either a black or a matt aluminium colour
λ at 0 °C:	thk. ≤ 32 mm ≤ 0.033 W/m·K - thk. > 32 mm ≤ 0.034 W/m·K
μ:	≥ 10000
EUROCLASS	E

EUROBATEX® COIL



Eurobatex tubes in coil form, ideal for the insulation of small bore Copper Coils in air conditioning applications



APPLICATIONS	
TYPE OF MATERIAL	Black, Closed Cell, Flexible Elastomeric Foam (FEF)
λ at 0 °C:	≤ 0.033 W/mK
μ:	≤ 10000
EUROCLASS	B ₁ - s2,d0

EG 100



A High density EPDM foam sheet suitable for gasketing applications; with good mechanical properties, suitable for external applications and use at high operating temperatures

APPLICATIONS	
TYPE OF MATERIAL	High density Flexible Elastomeric Foam (FEF) sheets, EPDM based
COMPRESSION DEFLECTION 50%	70 - 110 kPa
ELONGATION AT BREAK	≥ 100 %
ST (+)	150 °C

K80

High-density, NBR/PVC foam tubes suitable for OEM industrial component applications, specifically conceived for when higher mechanical characteristics are required; also suitable for automotive applications



APPLICATIONS	
TYPE OF MATERIAL	High density Flexible Elastomeric Foam (FEF) tubes, NBR + PVC based
TENSILE STRENGTH	≥ 250 kPa
ELONGATION AT BREAK	80 - 120 %

EUROSOLAR TWIN SPECIAL


Pre-insulated steel tubes, suitable for heat-transfer fluid distribution systems in solar thermal applications or in installations operating at higher line temperatures



APPLICATIONS	
TYPE OF MATERIAL	A Composite System in the form of Coils consisting of two flexible AISI 316 L Stainless Steel tubes, each tube being insulated with Eurobatex AT and an outer coating of a UV resistant film (Black or Brick Red). The system includes a sensor cable
λ at 40 °C:	≤ 0.042 W/m-K
μ:	-
EUROCLASS	E ₁

POLISONORM PN 83

A Rigid Polyurethane Foam (PUR) range of moulded pipe sections and pre-formed elbows


APPLICATIONS	
TYPE OF MATERIAL	Polyurethane (PUR) tubes protected with external jacketing of aluminium (ALU) or PVC (PVC) foil
DENSITY	25 kg/m ³
λ at 0 °C:	0,029 W/m·K
EUROCLASS	ALU: B ₁ - s1, d0 PVC: E



POLISOLAN PE 80 R

Polyethylene foam tubes with a co-extruded polymeric facing, suitable for the thermal insulation in heating & plumbing applications



APPLICATIONS	
TYPE OF MATERIAL	Closed cell Polyethylene foam (PEF) with external scratch protective film of black coloured polyethylene
λ at 0 °C:	≤ 0.034 W/m·K
μ:	≥ 15000
EUROCLASS	B ₁ - s1, d0

JACKETING SYSTEMS

Available as both PVC and Isoltec composite jacketing, these materials provide mechanical and weather protection when applied over Eurobatex products



ADHESIVES

Solvent based neoprene adhesives to be used for the installation and jointing of Eurobatex Products. Available in a standard version as CNX S and in a high temperature resistant version as CNX AT1

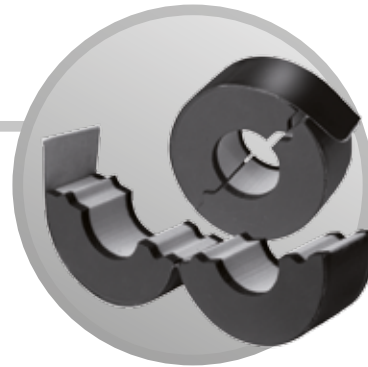


SELF-ADHESIVES TAPES

FPX Self-Adhesive elastomeric tape for use with EUROBATEX
FPX AT Self-Adhesive elastomeric tape for use with EUROBATEX AT
FPX HF Self-Adhesive elastomeric tape for use with EUROBATEX HF
FPE Self-Adhesive polymeric tape for use with PEN/PEAL sheets
NC Self-Adhesive tapes in various materials and colours (PVC, AL FOIL), suitable for all kinds of jacketing

PIPE SUPPORTS + CLAMPS

A load-bearing composite system made from high density PUR Foam joined to Eurobatex foam at both ends: with external jacket in black PVC. Available also in a Halogen Free version made with Eurobatex HF foam and aluminium jacketing. Suitable for use on Refrigeration and Chilled Water installations to prevent condensation at pipe supports



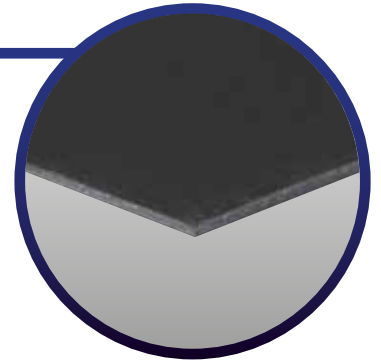
UNION COVERING

A cladding system for insulated pipes and bends made from 99.5% pure Aluminium. The system provides mechanical and weather protection for Eurobatex and other types of thermal insulation materials

EUROSOUND

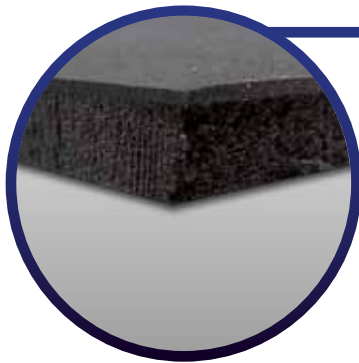
A solid elastomeric sheet material incorporating a high density filler for use as an acoustic barrier. Available in different thicknesses and with different levels of fire performance; also suitable for marine applications

APPLICATIONS				
TYPE OF MATERIAL	Polymeric compound with high density mineral fillers. It's not contain halogens, bitumen and substances which are hazardous to human health			
TRASMISSION LOSS	200 Hz	400 Hz	600 HZ	800 Hz
2 mm thickness 4 kg/m²	17,9	24,8	29,1	29,1
4 mm thickness 8 kg/m²	23	30	34,3	39,5



SILENTPLUS RUBBER

A two layer product consisting of an acoustic barrier and Eurobatex FEF sheet providing sound absorption and noise dampening

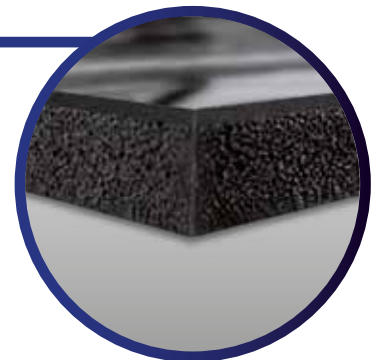


APPLICATIONS						
TYPE OF MATERIAL	Polymeric compound with high density mineral fillers coupled with Eurobatex sheet					
MEASUREMENT OF NOISE FROM WASTE WATER INSTALLATIONS	Reduction of air-borne sound transmission	Flow rate	0,5 L/s	1 L/s	2 L/s	4 L/s
		dB (A)	12	12	10,5	10,5
	Structure-borne sound level	dB (A)	15,5	16,6	18,4	19,6
EUROCLASS	D - s2,d0					

SILENTPLUS RUBBER HF

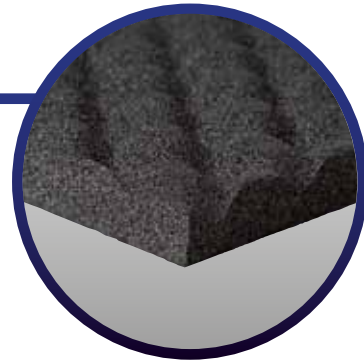
A two layer consisting of an acoustic barrier and Eurobatex HF elastomeric foam sheet providing sound absorption and noise dampening

APPLICATIONS						
TYPE OF MATERIAL	Polymeric compound with high density mineral fillers coupled with Eurobatex HF sheet, covered with aluminium foil. The product is halogen free.					
MEASUREMENT OF NOISE FROM WASTE WATER INSTALLATIONS	Reduction of air-borne sound transmission	Flow rate	0,5 L/s	1 L/s	2 L/s	4 L/s
		dB (A)	12	12	10,5	10,5
	Structure-borne sound level	dB (A)	15,5	16,6	18,4	19,6
EUROCLASS	D - s2,d0					



EUROBATEX® BUGNATO

Flexible elastomeric foam sheet with a profiled surface cut into one side for acoustic absorption and noise reduction



APPLICATIONS

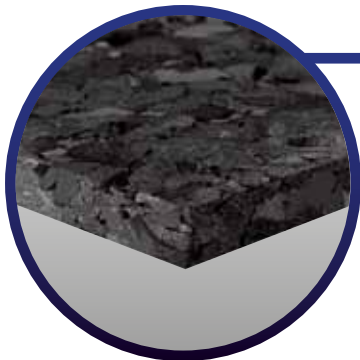


TYPE OF MATERIAL

Black, flexible elastomeric foam (FEF) with a profiled surface

EUROBATEX® OC

Granulated elastomeric foam moulded with a resin binder to provide a high performance open-cell, sound absorbing material



APPLICATIONS

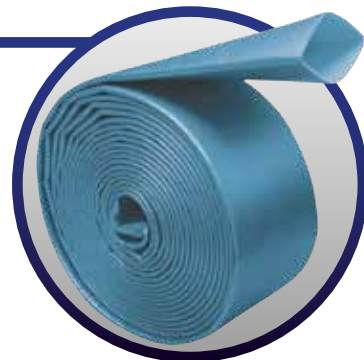


TYPE OF MATERIAL

A product made from granules of Eurobatex FEF bonded together with a Polyurethane resin binder

NORUMOR

Polyethylene foam tubes for the acoustic insulation of rain water and waste water pipes



APPLICATIONS



TYPE OF MATERIAL

Expanded Polyethylene Foam (PEF) with scratch protective coating



UNION FOAM

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