COMPOMIX

Union Foam provides a comprehensive range of accessories for use with its various thermal and acoustic insulation products. The range includes CNX Adhesive and Cleaner for use with Eurobatex, Union Colour Paint to provide weather protection for external services and a flexible coating over Eurobatex on internal services; Eurobatex Pipe Supports to meet load-bearing requirements for insulated pipework. There are also mastics, colour matching tapes, rivets, punches and other components to facilitate the installation of specific products.

ELASTOMERIC SELF-ADHESIVE TAPE

Item No.	Description	pcs/ct
FPX 10 TR	thickness 3 mm x 50 mm width - 10 m length	24
FPX 15 TR	thickness 3 mm x 50 mm width - 15 m length	12
FPX 15 R AT ITG	thickness 3 mm x 50 mm width - 15 m length	12
FPX 15 R HF	thickness 3 mm x 50 mm width - 15 m length	12

SELF-ADHESIVE ALUMINIUM TAPE

Item No.	Description	pcs/ct
NCA 25x50	Aluminium adhesive tape width 25 mm x 50 m length	loose
NCA 50x50	Aluminium adhesive tape width 50 mm x 50 m length	loose
NCA 75x50	Aluminium adhesive tape width 75 mm x 50 m length	loose
NCA 38x50 NERO	Black aluminium adhesive tape width 38 mm x 50 m length	36
NCA 50x50 NERO	Black aluminium adhesive tape width 50 mm x 50 m length	24
NCA 25x50 TEC	Aluminium tape width 25 mm x 50 m length	loose
NCA 50x50 TEC	Aluminium tape width 50 mm x 50 m length	loose
NCA 75x50 TEC	Aluminium tape width 75 mm x 50 m length	loose
NCA 100x50 TEC	Aluminium tape width 100 mm x 50 m length	loose
NC GLAS N 50x25	Black adhesive tape, width 50 mm x 25 m length	loose
NC GLAS N 75x25	Black adhesive tape, width 75 mm x 25 m length	loose
NC GLAS N 100x25	Black adhesive tape, width 100 mm x 25 m length	loose

SELF-ADHESIVE PVC TAPE

Item No.	Description	pcs/ct
NCN 25x25	BLACK adhesive tape 25 mm x 25 m	96
NCN 38x25	BLACK adhesive tape 38 mm x 25 m	60
NCN 50x25	BLACK adhesive tape 50 mm x 25 m	48
NCB 38x25	WHITE adhesive tape 38 mm x 25 m	60
NCB 50x25	WHITE adhesive tape 50 mm x 25 m	36
NCG 25x33	GREY adhesive tape 25 mm x 33 m	90
NCG 50x33	GREY adhesive tape 50 mm x 33 m	18

CNX ADHESIVES

Item No.	Description	pcs/ct
CNX 850 S	850 g - 1000 ml tin	12
CNX 425 S	425 g - 500 ml tin	24
CNX 200 S	200 g - 225 ml tin including brush	24
CNX 425 AT1	425 g - 500 ml tin	24

CLEANER FOR CNX ADHESIVES

Item No.	Description	pcs/ct
DETERGENTE	850 g - 1000 ml tin	12

VEC PAINT

Item No.	Description	pcs/ct
VEC G 0,75	GREY paint - 0,75 litre can	loose
VEC G 2,5	GREY paint - 2,5 litres can	loose

Black and white colour available on request

SEALANT

Item No.		Description	pcs/ct
Black	Grey		
Sil-Ma	Sil-Ma G	290 ml cartridges	100

TECHNICAL DATA SHEET N° 15 - REV. 08

FPX TR

TYPE OF MATERIAL:	Pressure sensitive elastomeric tape
PRODUCT RANGE:	Tape in rolls of 10 m or 15 m length, 50 mm width and 3 mm thickness
FIELDS OF APPLICATION:	Sealing and finishing tape for EUROBATEX insulated systems
DIMENSIONAL TOLERANCES:	In accordance with the European Standard EN 14304
ENVIRONMENTAL INFORMATION:	Flexible and expanded CFC and HCFC-free rubber foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero)
ADDITIONAL INFORMATION:	Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of paper foil. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. The product should not be kept in storage for more than one year

CHARACTERISTICS OF THE EUROBATEX ELASTOMERIC FOAM

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
THERMAL CONDUCTIVITY	At a mean temperature of 0 °C	λ ≤0,033 W/m·K	EN 12667
	At a mean temperature of +40 °C	λ ≤0,037 W/m·K	
WATER VAPOUR DIFFUSION RESISTANCE FACTOR	μ ≥ 10000		EN 12086
WATER ABSORPTION	<0,1 kg/m²		EN 1609
FIRE PERFORMANCE	**European Standard Euroclass**	B-s2,d0	EN 13501-1
	FM Approval	FM Approved Class 4924 Product Type: Pipe and Duct insulation	Test Procedure Class Number 4924 UCB Standard No. 26-3
	USA, Canada	UL Approved Flame Class V-0, HF-1	UL 94 UL 746 A - UL 746 B
	Swiss Reaction to Fire group	RF2 (cr)	VKF Directive 13-15
ANTIMICROBIAL BEHAVIOUR	No fungal and bacterial growth detected		A.A.T.C.C. Test Method 30 ISO 22196
CORROSION RISK	Meets test requirements		EN 13468

CHARACTERISTICS OF THE ADHESIVE

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
LINER	Glassine avana	-
ADHESIVE	Acrylic emulsion	-
ADHESIVE WEIGHT	65 ± 2 gr/m²	-
SCRIM	Polyester	-
PEEL ADHESION ON STEEL	14 N/in	FMT 1
SHEAR	>24 h	FMT 8
LOOP TACK ON STEEL	12 N/in	FMT 9
RECOMMENDED APPLICATION TEMPERATURE	from +10 °C to +40 °C	-
TEMPERATURE RESISTANCE AFTER APPLICATION	from -10 °C to +90 °C	-

For information regarding the chemical resistance of the product please consult the specific technical documentation.

System 1 CE Marking in accordance with the European Standard EN 14304.
Certification of Constancy of Performance issued by CSI S.p.A. - Bollate IT-20021.

The product meets the requirements for the achievement of the Eco-Bau classification.
For outside uses FPX TR should be protected with Union Covering or Vec elastomeric paint.
All the normatives quoted in this document are updated to the latest issued version.
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FPX AT1

TYPE OF MATERIAL:	Pressure sensitive elastomeric tape
PRODUCT RANGE:	Tape in rolls of 15 m length, 50 mm width and 3 mm thickness
FIELDS OF APPLICATION:	Sealing and finishing tape for EUROBATEX AT insulated systems
DIMENSIONAL TOLERANCES:	In accordance with the European Standard EN 14304
ENVIRONMENTAL INFORMATION:	Flexible and expanded CFC and HCFC-free rubber foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero)
ADDITIONAL INFORMATION:	Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of polyolefin foil. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. The product should not be kept in storage for more than one year

CHARACTERISTICS OF THE EUROBATEX AT ELASTOMERIC FOAM

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
THERMAL CONDUCTIVITY	At a mean temperature of +40 °C	$\lambda \leq 0{,}042$ W/m·K	EN 12667
WATER ABSORPTION	<0,1 kg/m²		EN 1609
FIRE PERFORMANCE	European Standard Euroclass	E	EN 13501-1
OZONE RESISTANCE	Excellent		ISO 7326
UV RESISTANCE	Excellent		UNI ISO 4892-2
CORROSION RISK	Meets test requirements		EN 13468

CHARACTERISTICS OF THE ADHESIVE

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
LINER	White HDPE	-
ADHESIVE	Acrylic	-
ADHESIVE WEIGHT	90 ± 2 g/m²	-
SCRIM	Polyester	-
PEEL ADHESION ON STEEL	17,5 N/in	FMT 1
SHEAR	>25 h	FMT 8
LOOP TACK ON STEEL	13 N/in	FMT 9
RECOMMENDED APPLICATION TEMPERATURE	from +10 °C to +40 °C	-
TEMPERATURE RESISTANCE AFTER APPLICATION	from -10 °C to +120 °C	-

For information regarding the chemical resistance of the product please consult the specific technical documentation.

System 3 CE Marking in accordance with the European Standard EN 14304.

All the normatives quoted in this document are updated to the latest issued version.
Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

TECHNICAL DATA SHEET N° 25 - REV. 02

FPX HF

TYPE OF MATERIAL:	Pressure sensitive elastomeric tape without halogens
PRODUCT RANGE:	Tape in rolls of 15 m length, 50 mm width and 3 mm thickness
FIELDS OF APPLICATION:	Sealing and finishing tape for EUROBATEX HF insulated systems
DIMENSIONAL TOLERANCES:	In accordance with the European Standard EN 14304
ENVIRONMENTAL INFORMATION:	Flexible and expanded CFC and HCFC-free rubber foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero)
ADDITIONAL INFORMATION:	Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of polyolefin foil. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. The product should not be kept in storage for more than one year

CHARACTERISTICS OF THE EUROBATEX HF ELASTOMERIC FOAM

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
THERMAL CONDUCTIVITY	At a mean temperature of +40 °C	λ ≤0,040 W/m·K	EN 12667
WATER VAPOUR DIFFUSION RESISTANCE FACTOR	μ ≥ 2000		EN 12086
WATER ABSORPTION	<0,1 kg/m²		EN 1609
FIRE PERFORMANCE	**European Standard Euroclass**	D-s3,d0	EN 13501-1
	USA, Canada	UL Approved Flame Class: HF-1	UL 94 UL 746 A - UL 746 B
	Shypyards (MED)	Meets test requirements	IMO Res. MSC.307(88); IMO MSC/Circ.1004 (Directive MED 2014/90/UE Modules B and D)
	Swiss Reaction to Fire group	RF3 (cr)	VKF Directive 13-15
RAILWAYS	HL-1/R1 (low emission, low toxicity in case of fire)		EN 45545
CORROSION RISK	Meets test requirements		EN 13468

CHARACTERISTICS OF THE ADHESIVE

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
LINER	White HDPE	-
ADHESIVE	Acrylic	-
ADHESIVE WEIGHT	90 ± 2 g/m²	-
SCRIM	Polyester	-
PEEL ADHESION ON STEEL	17,5 N/in	FMT 1
SHEAR	>25 h	FMT 8
LOOP TACK ON STEEL	13 N/in	FMT 9
RECOMMENDED APPLICATION TEMPERATURE	from +10 °C to +40 °C	-
TEMPERATURE RESISTANCE AFTER APPLICATION	from -10 °C to +120 °C	-

For information regarding the chemical resistance of the product please consult the specific technical documentation.

System 3 CE Marking in accordance with the European Standard EN 14304.

The product meets the requirements for the achievement of the Baubook and Eco-Bau classification.
For outside uses FPX HF should be protected with Union Covering or Vec elastomeric paint.
All the normatives quoted in this document are updated to the latest issued version.
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NCA

TYPE OF MATERIAL:	Aluminium self-adhesive tape
PRODUCT RANGE:	50 m length tape available in width of 50 mm, 75 mm and 100 mm
FIELDS OF APPLICATION:	Sealing tape for insulated system, ventilations pipes and air conditioning ducts
MAIN FEATURES:	Strong and flexible aluminium tape with high adhesion and initial tack. Highly resistant to moisture
ADDITIONAL INFORMATION:	Self-adhesive coating based on synthetic rubber. Protection liner made of polyolefin. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS / SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,03 mm	DIN EN 1942
ELONGATION AT BREAK	5%	DIN EN 14410
TENSILE STRENGTH	25 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	9 N/cm	DIN EN 1939

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NCA NERO

TYPE OF MATERIAL:	Aluminium self-adhesive tape, black coloured
PRODUCT RANGE:	50 m length tape available in width of 38 mm and 50 mm
FIELDS OF APPLICATION:	Sealing tape for insulated system, ventilations pipes and air conditioning ducts
MAIN FEATURES:	Strong and flexible aluminium tape, ensure mechanical protection for rubber system sealing
ADDITIONAL INFORMATION:	Self-adhesive coating based on synthetic rubber. Protection liner made of polyolefin. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS / SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,05 mm	DIN EN 1942
ELONGATION AT BREAK	5%	DIN EN 14410
TENSILE STRENGTH	20 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	8 N/cm	DIN EN 1939

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TECHNICAL DATA SHEET - TAPES

NCA TEC

TYPE OF MATERIAL:	Aluminium self-adhesive tape with thermoplastic UV protective covering
PRODUCT RANGE:	50 m length tape available in width of 25 mm, 50 mm, 75 mm, 100 mm
FIELDS OF APPLICATION:	Sealing tape for ISOLTEC insulated system
MAIN FEATURES:	Weather and UV-resistant, excellent water vapour barrier. Very good ageing properties
ADDITIONAL INFORMATION:	Acrylic self-adhesive coating. Protection liner made of polyolefin. Traces of silicon can be found on the foil protecting the adhesive coating
STORAGE CONDITIONS / SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,08 mm	DIN EN 1942
ELONGATION AT BREAK	45%	DIN EN 14410
TENSILE STRENGTH	40 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	8 N/cm	DIN EN 1939

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NCG

TYPE OF MATERIAL:	Plasticiezed PVC self-adhesive tape, grey colour
PRODUCT RANGE:	33 m length tape available in width of 25 mm and 50 mm
FIELDS OF APPLICATION:	Sealing tape for ISOPAK insulated system
MAIN FEATURES:	Flexible, ageing resistant and easy to apply on different and irregular surfaces
ADDITIONAL INFORMATION:	Self-adhesive coating based on synthetic rubber
STORAGE CONDITIONS / SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,13 mm	DIN EN 1942
ELONGATION AT BREAK	200%	DIN EN 14410
TENSILE STRENGTH	20 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	1,5 N/cm	DIN EN 1939

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TECHNICAL DATA SHEET - TAPES

NCN

TYPE OF MATERIAL:	Plasticiezed PVC self-adhesive tape, black colour
PRODUCT RANGE:	25 m length tape available in width of 25 mm, 38 mm and 50 mm
FIELDS OF APPLICATION:	Sealing tape for insulated system, ventilations pipes and air conditioning ducts
MAIN FEATURES:	Flexible, ageing resistant and easy to apply on different and irregular surface
ADDITIONAL INFORMATION:	Self-adhesive coating based on synthetic rubber
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,1 mm	DIN EN 1942
ELONGATION AT BREAK	190%	DIN EN 14410
TENSILE STRENGTH	18 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	1,5 N/cm	DIN EN 1939

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NCB

TYPE OF MATERIAL:	Plasticiezed PVC self-adhesive tape, white colour
PRODUCT RANGE:	25 m length tape available in width of 38 mm and 50 mm
FIELDS OF APPLICATION:	Sealing tape for insulated system, ventilations pipes and air conditioning ducts
MAIN FEATURES:	Flexible, ageing resistant and easy to apply on different and irregular surfaces
ADDITIONAL INFORMATION:	Self-adhesive coating based on synthetic rubber
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED	TEST METHOD
THICKNESS	0,15 mm	DIN EN 1942
ELONGATION AT BREAK	190%	DIN EN 14410
TENSILE STRENGTH	25 N/cm	DIN EN 14410
PEEL ADHESION ON STEEL	2 N/cm	DIN EN 1939

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CNX S

GENERAL CHARACTERISTICS:	One component Polychloroprene adhesive of high thermal resistance. Thanks to the specific formulation, CNX S has a longer “open time”, which allows to increase the operating time between the application of the adhesive and the installation of the material
RECOMMENDED USE:	CNX S Adhesive is used to bond NBR based products as Eurobatex and Eurobatex HF. It is the preferred product for any situation involving the installation of Eurobatex sheets and for sealing butt joints and seams in both domestic and industrial application
TECHNICAL CHARACTERISTICS:	**General Composition:** polychloroprene polymer and synthetic resins dissolved in organic solvents. **Solvent Composition:** a mixture of Aliphatic and Acrylic compounds including Ketones and Esters. **Appearance:** a medium viscosity, straw yellow liquid. **Viscosity:** 600 ± 100 mPa.s (tested with a Brookfield RVT Viscosimeter at 20 rpm with a No.3 Spindle). **Density:** 870 g/cm^3 **Dry Residue (%):** 21,2 ± 1,5 **Operating temperature range:** -40 °C to +110 °C **Application temperature range:** +10 °C to +30 °C
APPLICATION TECHNIQUE:	• CNX S is a contact adhesive and it should be applied to both surfaces to be bonded as a thin, even, continuous film. Performance on FEF insulation material: 100/150 g/m^2 • Allow the adhesive to “tack dry”, that is to say to let is become dry to the touch but tacky under slight pressure. • The tack time or open time for CNX S is typically 15 to 20 minutes at an average temperature of 20 °C • Bring the surfaces to be bonded together using firm pressure. Work from the ends to the middle with seams and fit butt joints under pressure. • CNX S requires 36 hours to completely dry at room temperature. During this time it should not be exposed to mechanical stress or to an operating temperature of 110 °C. • To prevent the solvent evaporation, it is strongly recommended that the necessary quantity of adhesive is poured into a different container and that the tin is kept tightly sealed. • Before using CNX S read carefully the material safety data sheet (MSDS).
STORAGE CONDITIONS/SHELF LIFE:	CNX S Adhesive has a shelf life of 12 months when stored in the original containers at an ambient temperature of 10 °C to 30 °C
PACKAGING:	CNX S Adhesive is supplied in metals cans with a net weight of 200g, 425g and 850g

The technical data and information contained here above are only general guidelines and not a guarantee.
It is the final user’s responsibility to verify that the product is appropriate for the specific application intended.
Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

CNX AT1

GENERAL CHARACTERISTICS:	One component Polychloroprene adhesive of high thermal resistance (up to +150 °C)
RECOMMENDED USE:	CNX AT1 Adhesive is used to bond EPDM based Eurobatex products. It is the preferred product for any situation involving the installation of sheets, pipes and for sealing butt joints and seams in both domestic and industrial application
TECHNICAL CHARACTERISTICS:	**General Composition:** polychloroprene polymer and synthetic resins dissolved in organic solvents. **Solvent Composition:** a mixture of Aliphatic and Acrylic compounds including Ketones and Esters. **Appearance:** a medium viscosity, straw yellow liquid. **Viscosity:** 850 ± 100 mPa.s (tested with a Brookfield RVT Viscosimeter at 20rpm with a No.3 Spindle). **Density:** 880 g/cm^3 **Dry Residue (%):** 20,43 ± 1,5 **Operating temperature range:** -40 °C to +150 °C **Application temperature range:** +10 °C to +30 °C
APPLICATION TECHNIQUE:	• CNX AT1 Adhesive can be applied by brush, abt. 100-150 g/m^2 for a double-side application. • Carefully clean up the pieces to have a dry, free of grease and dust surface to bind. • Spread evenly a thin layer of adhesive on the two surfaces to be joined. • Allow each prepared surface to dry separately for 5 minutes depending on temperature and environment conditions. • When the pieces are dry and sticky to the touch press strongly together for 5/10 seconds. • CNX AT1 Adhesive requires 36 hours to fully cure at room temperature and should not be exposed to mechanical stress or an operating temperature of 150 °C until it is fully cured. • To prevent the solvent evaporation, it is strongly recommended that the necessary quantity of adhesive is poured into a different container and that the tin is kept tightly sealed. • Before using CNX AT1 adhesive we recommend reading the material safety data sheet (MSDS).
STORAGE CONDITIONS/SHELF LIFE:	CNX AT1 Adhesive has a shelf life of 12 months when stored in the original containers at an ambient temperature of 10 °C to 30 °C
PACKAGING:	CNX AT1 Adhesive is supplied in metals cans with a net weight of 425g - 24 cans/box

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ELASTOMERIC PAINT - VEC

GENERAL CHARACTERISTICS:	VEC paint is an elastomeric coating manufactured from styrene acrylic copolymers and inorganic pigments in an aqueous solution to give a product with a satin finish. It is designed to provide weather protection and UV radiation resistance to Eurobatex in external environments and to provide a flexible coating on pipes, ducts and FEF insulated mechanical services indoors
RECOMMENDED USE:	VEC Paint is recommended by Union Foam for use on Eurobatex tubes and sheets, it may also be used on Eurobatex HF and Eurobatex AT, the latter product does not require weather protection but here the paint can be used as a flexible decorative finish. Elastomeric paint is technically suitable for waterproofing a wide range of non-permeable horizontal surfaces including, roofs, elastic and rubberised supports but it is the duty of the installer to confirm compatibility in such cases
TECHNICAL CHARACTERISTICS:	**Density at 25 °C:** 1,250 to 1,360 g/cm^3 **Physical appearance:** Thixotropic Paste **Solid content (dry residue):** 66% **Coverage:** 3-5 m^2/litre per coat
PHYSICAL PROPERTIES:	The high elasticity of the product makes it compatible with flexible substrates such as Eurobatex. It can be applied to large surface areas without the use of expansion joints even when these surfaces are in direct sunlight. VEC Paint has been formulated to offer a high level of weather protection and resistance to UV radiation (tested to > 100 hours exposure on a QUV Weatherometer); it forms a good mechanical key to Eurobatex surfaces and if correctly applied will form a uniform weatherproof sheath
SURFACE PREPARATION:	The Eurobatex surface should be clean, dry and free from any oil, grease, organic growth or any extraneous substances which may affect the adhesion or cure of the paint
APPLICATION:	**Method:** brush, roller or airless spray. **Dilution:** when using 2 coats the first coat may be diluted with 5-7% by volume of clean water. Dilution is not acceptable for 1 coat application. **Ambient application limits:** The paint may be applied when the Ambient Temperature is between 10 °C and 35 °C and the Relative Humidity ≤70%; lower Ambient Temperatures will significantly extend drying times and very low Ambient Temperature, <5 °C may make the product too viscous to apply as a smooth even coating. Application at temperatures above 35 °C may cause surface skinning. **Dry Film Thickness:** typically 0,5 mm per coat. **Coverage:** 1,5 to 2,5m^2/litre for 2 coat application. **Number of coats:** 1 or 2 **Drying time at 25° C, 60% R.H.:** Touch Dry 4h Dry Through 12h Fully Cured 24h These values are influenced by the ambient temperature and relative humidity with lower temperatures and higher humidity extending the times shown. VEC Paint is a water based coating and is therefore in danger of being washed off until it is completely dry. This needs to be taken into consideration for external application and in the case of external ductwork covering is always recommended
COLOURS:	Grey is permanently in stock. Black and white and other colours can be made to order but will be subject to extended lead times and minimum order requirement
PACKAGING:	0,75 litre and 2,5 litre plastic pails
SHELF LIFE AND STORAGE:	The product can be stored for a maximum of 6 months in its original hermetically sealed containers in a cool place. Residual material in opened tins should be used as soon as possible and stored in a container which minimises the air-space above the product and the lid. Do not expose the product to an ambient temperature in excess of 40 °C, permanent storage at high ambient temperatures will shorten the shelf life
HEALTH AND SAFETY:	The product is not classified as a hazardous material pursuant to the provisions set out Directives 67/548/EEC and 1999/45/EEC or to any subsequent amendments or additions to these regulations. Residues must not be disposed of in to sewerage systems and unnecessary contact with skin should be avoided; uncured paint may be washed off with warm soapy water

PERFORMANCE ON INSULATING PIPES METER/LITRE

Diameter mm	Thickness 6 mm	Thickness 9 mm	Thickness 13 mm	Thickness 19 mm	Thickness 25 mm	Thickness 32 mm
6	71	46				
8	64	43				
10	58	42	35	25		
12	53	36	34	24		
14	49	31	34	23		
16	46	29	28	22		
18	43	25	26	20	15	11
20	41	22	23	18	14	10
22	38	22	23	18	14	10
25	35	20	20	16	13	9
27	33	20	20	16	13	9
34	28	18	16	15	12	9
42	23	18	16	14	11	8
48		16	15	13	11	8
54		15	14	12	10	7
60		14	13	11	10	7
70		13	11	10	9	6
76		12	10	9	8	6
89		11	9	9	8	6
102		10	9	8	7	5
108		9	8	8	7	5
114			8	7	6	5
127			7	7	6	5
134			7	6	5	4
140			6	5	5	4
160			6	5	4	4

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POLYMERIC JACKETING

TYPE OF MATERIAL:	A though flexible non-metallic jacketing system designed to be compatible with Flexible Elastomeric Foam (FEF) products such as Eurobatex, available in Black and Grey colour
PRODUCT RANGE:	Supplied in 1 metre wide rolls with a length of 25 m; available in thicknesses of 1 mm and 2 mm
FIELDS OF APPLICATION:	Protection of insulated pipework, valves fittings, ductwork, vessels, plant and equipment in a range of industrial applications including onshore and off-shore chemical, petrochemical and LNG plant and equipment
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environment at a temperature between 0 °C and 35 °C, and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored before installing

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
OPERATING TEMPERATURE RANGE*	-20 °C +120 °C		ASTM D 573
DENSITY	1,8 g/cm^3 (±0,05)		ASTM D 1622
WATER VAPOUR DIFFUSION RESISTANCE FACTOR	μ ≥ 15000		EN 12086
FIRE PERFORMANCE	European Standard Euroclass	B-s3,d0	EN 13501-1
SHIPYARDS (MED)	Meets test requirements		IMO Res. MSC.307 (88)
OZONE RESISTANCE	Good		
UV RESISTANCE	Good		
TENSILE STRENGHT	≥5 MPa		ASTM D 412 C
ELONGATION AT BREAK	≥150%		ASTM D 412 C

*NB: for applications at lower temperature please contact our technical department.
For information regarding the chemical resistance of the product please consult the specific technical documentation.
Installation: it is recommennded fixing with adhesive CNX S, thermal fixing with hot air gun, if necessary also with mechanical fixing.
Finishing: must carry out with a sealant.
All the normatives quoted in this document are updated to the latest issued version.
Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

TECHNICAL DATA SHEET N° 24 - REV. 04

ISOPAK

TYPE OF MATERIAL:	Recoilling PVC sheet
PRODUCT RANGE:	Rolled sheets 1 m width and 25 m length. 90° elbows
FIELDS OF APPLICATION:	Mechanical and aesthetical finishing for insulation material
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environment at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored

PHYSICAL PROPERTIES	REFERENCE VALUES	
COLOUR:	Grey	
THICKNESS:	350 µm	
BREAKING LOAD:	longitudinal	30 - 35 N/mm²
	horizontal	25 - 30 N/mm²
TENSILE STRENGTH:	longitudinal	40 - 45 N/mm²
	horizontal	34 - 40 N/mm²
ELONGATION AT BREAK:	longitudinal	150 - 200%
	horizontal	100 - 150%
WITHDRAWAL:	longitudinal	2,5 - 3%
	horizontal	0,0 - 0,5%
HEAT-STABLE:	- 20° C + 60 °C	
SOFTENING POINT:	73 ± 1 °C	
DENSITY:	1,38 ± 0,01 g/cm³	
REACTION TO FIRE:	B2 (DIN 4102)	
	Class 1	

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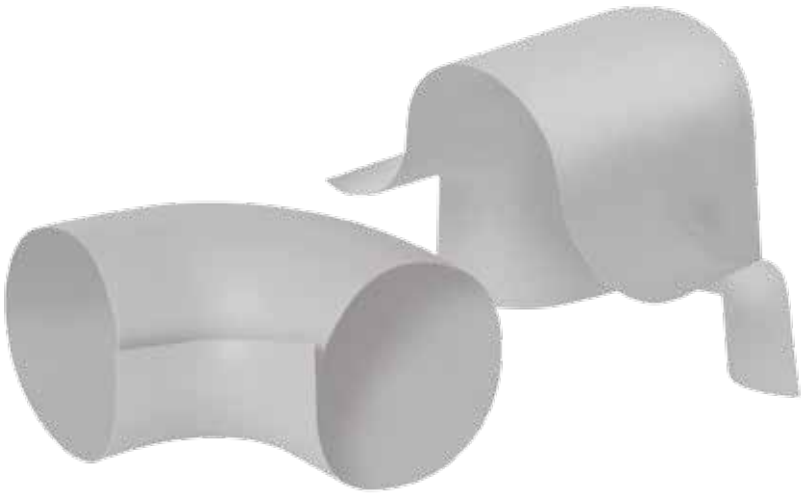
90° PVC ELBOWS

Piping Ø mm	Thickness 20 mm	Thickness 25 mm	Thickness 30 mm	Thickness 32 mm	Thickness 40 mm	Thickness 50 mm	Thickness 60 mm
12	CPVC 3S-060						
17	CPVC 3S-060	CPVC 3S-070	CPVC 3S-080	CPVC 3S-090	CPVC 3S-100	CPVC 3S-120	
21	CPVC 3S-070	CPVC 3S-080	CPVC 3S-090	CPVC 3S-090	CPVC 3S-110	CPVC 3S-130	
27	CPVC 3S-070	CPVC 3S-080	CPVC 3S-090	CPVC 3S-100	CPVC 3S-110	CPVC 3S-130	
34	CPVC 3S-080	CPVC 3S-090	CPVC 3S-100	CPVC 3S-100	CPVC 3S-120	CPVC 3S-140	CPVC 3S-160
43	CPVC 3S-090	CPVC 3S-100	CPVC 3S-110	CPVC 3S-110	CPVC 3S-130	CPVC 3S-150	CPVC 3S-170
48	CPVC 3S-090	CPVC 3S-100	CPVC 3S-110	CPVC 3S-120	CPVC 3S-130	CPVC 3S-150	CPVC 3S-170
54	CPVC 3S-100			CPVC 3S-120		CPVC 3S-160	
57			CPVC 3S-120				
60	CPVC 3S-100	CPVC 3S-110	CPVC 3S-120		CPVC 3S-150	CPVC 3S-170	CPVC 3S-190
64	CPVC 3S-110		CPVC 3S-130				CPVC 3S-190
70	CPVC 3S-110		CPVC 3S-130		CPVC 3S-160	CPVC 3S-180	CPVC 3S-200
76	CPVC 3S-120	CPVC 3S-130	CPVC 3S-140	CPVC 3S-150	CPVC 3S-160	CPVC 3S-180	CPVC 3S-200
89	CPVC 3S-130	CPVC 3S-140	CPVC 3S-150	CPVC 3S-160	CPVC 3S-170	CPVC 3S-190	CPVC 3S-210
102	CPVC 3S-150	CPVC 3S-160	CPVC 3S-170		CPVC 3S-190	CPVC 3S-210	CPVC 3S-230
108	CPVC 3S-150	CPVC 3S-160	CPVC 3S-170		CPVC 3S-200	CPVC 3S-220	CPVC 3S-240
114	CPVC 3S-160	CPVC 3S-170	CPVC 3S-180	CPVC 3S-190	CPVC 3S-200	CPVC 3S-220	CPVC 3S-240
127							
134		CPVC 3S-190	CPVC 3S-200		CPVC 3S-220	CPVC 3S-240	CPVC 3S-260
140		CPVC 3S-200	CPVC 3S-210	CPVC 3S-210	CPVC 3S-230	CPVC 3S-250	CPVC 3S-270
159		CPVC 3S-220	CPVC 3S-230		CPVC 3S-250	CPVC 3S-270	CPVC 3S-290
168		CPVC 3S-220	CPVC 3S-230		CPVC 3S-260	CPVC 3S-280	CPVC 3S-300
194					CPVC 3S-280	CPVC 3S-300	CPVC 3S-320
219		CPVC 3S-280	CPVC 3S-290		CPVC 3S-310	CPVC 3S-330	CPVC 3S-350
245							
267			CPVC 3S-330			CPVC 3S-370	CPVC 3S-390
273		CPVC 3S-330					
324		CPVC 3S-380	CPVC 3S-390			CPVC 3S-430	
356							

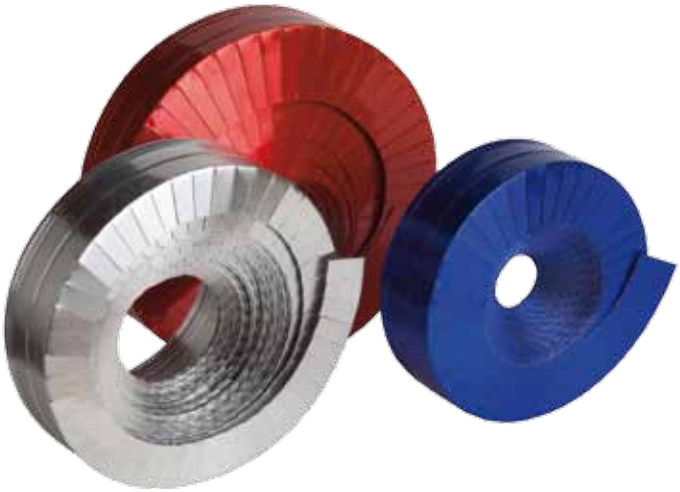


MISCELLANEOUS ACCESSORIES

Item No.	Description	pcs/ct
ISOPAK	Recoilling PVC sheet, width 1 m, length 25 m	25 m^2
PNT	Straight awl	loose
CHIODI	Plastic tacks for awl	1000
PNT MET	Metallic straight awl	loose
CHIODI MET	Metallic tacks	1000

ALUMINIUM ENDCAPPINGS

Item No.	Description	Colour	Length mm	pcs/ct
TER-NA 18	18 mm for pipes from Ø 22 mm to Ø 34 mm	natural	10	5
TER-RS 18	18 mm for pipes from Ø 22 mm a Ø 34 mm	red	10	5
TER-BL 18	18 mm for pipes from Ø 22 mm a Ø 34 mm	blue	10	5
TER-NA 23	23 mm for pipes from Ø 43 mm a Ø 49 mm	natural	10	5
TER-RS 23	23 mm for pipes from Ø 43 mm a Ø 49 mm	red	10	5
TER-BL 23	23 mm for pipes from Ø 43 mm a Ø 49 mm	blue	10	5
TER-NA 28	28 mm for pipes from Ø 61 mm a Ø 90 mm	natural	10	5
TER-RS 28	28 mm for pipes from Ø 61 mm a Ø 90 mm	red	10	5
TER-BL 28	28 mm for pipes from Ø 61 mm a Ø 90 mm	blue	10	5
TER-NA 38	38 mm for pipes from Ø 102 mm a Ø 115 mm	natural	10	5
TER-RS 38	38 mm for pipes from Ø 102 mm a Ø 115 mm	red	10	5
TER-BL 38	38 mm for pipes from Ø 102 mm a Ø 115 mm	blue	10	5



UNION COVERING

Union Covering is an Aluminium Cladding system, comprising the cladding itself in roll form plus various pre-formed fitting covers. The system also includes rivets, punches and other accessories to allow it to be correctly installed in accordance with the Installation Manual. Union Covering provides a mechanically strong and aesthetically pleasing cladding system suitable for use over Eurobatex and various other types of thermal insulation product.

UNION COVERING

UNION COVERING

TYPE OF MATERIAL:	99,5% aluminium sheet
PRODUCT RANGE:	Pipe sections with a thickness of 0,6 mm and diameters from 80 mm to 400 mm, length 1 m. Elbows with a thickness of 0,6 mm and diameters from 80 mm to 400 mm
FIELDS OF APPLICATION:	Cladding, protecting and enhancing the appearance of insulations, also for external application

MECHANICAL PROPERTIES			
	Yield point % 0,2 (MPa)	Tensile strength (MPa)	Elongation - A %
TEST RESULTS	171,78	182,82	2,84

CHEMICAL COMPOSITION								
	Si%	Fe%	Cu%	Mn%	Mg%	Zn%	Ti%	Al%
TYPICAL VALUES	0,087	0,353	0,006	0,004	0,002	0,009	0,0065	99,534

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UNION COVERING

99,5% ALUMINIUM PIPE SECTIONS - LENGTH 1 m

Item No.	Pipe ø mm	Thickness mm
*TALU 0,60 - 80	80	0,6
TALU 0,60 - 90	90	0,6
TALU 0,60 - 100	100	0,6
TALU 0,60 - 110	110	0,6
TALU 0,60 - 120	120	0,6
TALU 0,60 - 130	130	0,6
TALU 0,60 - 140	140	0,6
TALU 0,60 - 150	150	0,6
TALU 0,60 - 160	160	0,6
TALU 0,60 - 170	170	0,6
TALU 0,60 - 180	180	0,6
TALU 0,60 - 190	190	0,6
TALU 0,60 - 200	200	0,6
TALU 0,60 - 210	210	0,6
TALU 0,60 - 220	220	0,6
TALU 0,60 - 230	230	0,6
TALU 0,60 - 240	240	0,6
TALU 0,60 - 250	250	0,6
TALU 0,60 - 260	260	0,6
TALU 0,60 - 270	270	0,6
TALU 0,60 - 280	280	0,6
TALU 0,60 - 290	290	0,6
TALU 0,60 - 300	300	0,6
TALU 0,60 - 310	310	0,6
TALU 0,60 - 320	320	0,6
TALU 0,60 - 330	330	0,6
TALU 0,60 - 340	340	0,6
TALU 0,60 - 350	350	0,6
TALU 0,60 - 360	360	0,6
TALU 0,60 - 370	370	0,6
TALU 0,60 - 380	380	0,6
TALU 0,60 - 390	390	0,6
TALU 0,60 - 400	400	0,6

* Length 500 mm.

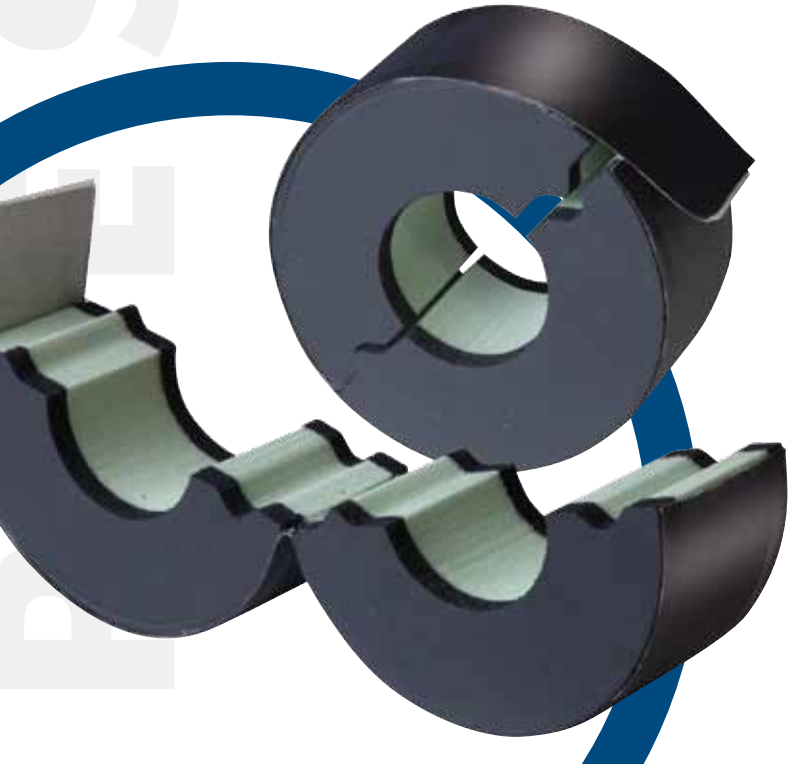
90° ELBOWS 99,5% ALUMINIUM

Item No.	Elbow ø mm	Thickness mm
CALU 0,60 - 80	80	0,6
CALU 0,60 - 90	90	0,6
CALU 0,60 - 100	100	0,6
CALU 0,60 - 110	110	0,6
CALU 0,60 - 120	120	0,6
CALU 0,60 - 130	130	0,6
CALU 0,60 - 140	140	0,6
CALU 0,60 - 150	150	0,6
CALU 0,60 - 160	160	0,6
CALU 0,60 - 170	170	0,6
CALU 0,60 - 180	180	0,6
CALU 0,60 - 190	190	0,6
CALU 0,60 - 200	200	0,6
CALU 0,60 - 210	210	0,6
CALU 0,60 - 220	220	0,6
CALU 0,60 - 230	230	0,6
CALU 0,60 - 240	240	0,6
CALU 0,60 - 250	250	0,6
CALU 0,60 - 260	260	0,6
CALU 0,60 - 270	270	0,6
CALU 0,60 - 280	280	0,6
CALU 0,60 - 290	290	0,6
CALU 0,60 - 300	300	0,6
CALU 0,60 - 310	310	0,6
CALU 0,60 - 320	320	0,6
CALU 0,60 - 330	330	0,6
CALU 0,60 - 340	340	0,6
CALU 0,60 - 350	350	0,6
CALU 0,60 - 360	360	0,6
CALU 0,60 - 370	370	0,6
CALU 0,60 - 380	380	0,6
CALU 0,60 - 390	390	0,6
CALU 0,60 - 400	400	0,6

PIPE SUPPORTS

EUROBATEX® PIPE SUPPORTS

EUROBATEX pipe supports are composite products made of polyurethane foam (PIR) coupled with flexible elastomeric foam (FEF), with a black PVC coating. These are the ideal solution for insulating shear connectors of piping, creating a barrier against condensation and safeguarding the properties of the insulation material.



EUROBATEX® PIPE SUPPORTS

TYPE OF MATERIAL:	Expanded polyurethane foam (PIR) coupled with flexible elastomeric foam (FEF) with an external PVC coating
PRODUCT RANGE:	Pipe supports with thicknesses from 13 mm to 32 mm and diameters from 17 mm to 168 mm, length 50 mm
FIELDS OF APPLICATION:	Mechanical protection, condensation control and to safeguard the properties of the insulation material on piping in general
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. The products should not be kept in storage for more than one year

CHARACTERISTICS OF THE POLYURETHANE INSULATION MATERIAL

PHYSICAL PROPERTIES	RESULT OBTAINED					TEST METHOD
DENSITY	60 - 80 kg/m³*					ISO 845
OPERATING TEMPERATURE RANGE	- 180 °C + 120 °C					
THERMAL CONDUCTIVITY	At a mean temperature of +10 °C		λ 0,036 ≤ W/m·K			ASTM C 518
WATER VAPOUR TRANSMISSION	60 kg/m³		30 (+/-10) g/m² - 24 h			ISO 1663
	80 kg/m³		25 (+/-10) g/m² - 24 h			
WATER ABSORPTION	5%					ISO 2896
COMPRESSION RESISTANCE	Parallel	60 kg/m³	kPa 670 (+/-80)	80 kg/m³	kPa 970 (+/-120)	ISO 844
	Perpendicular	60 kg/m³	kPa 440 (+/-120)	80 kg/m³	kPa 670 (+/-150)	
TENSILE STRENGTH	Parallel	60 kg/m³	kPa 860 (+/-90)	80 kg/m³	kPa 1280 (+/-160)	ASTM D 1623
	Perpendicular	60 kg/m³	kPa 710 (+/-130)	80 kg/m³	kPa 1000 (+/-220)	
SHEAR STRENGTH	60 kg/m³		kPa 350 (+/-60)			ASTM C 273
	80 kg/m³		kPa 550 (+/-60)			
DIMENSION STABILITY Length - Width - Thickness	At - 25 °C x 48 h		+0,5%			ISO 2796
	At + 100 °C x 48 h		+1,0%			

*NB: PIR density of 60 kg/m³ for pipe supports up to a diameter of 35 mm.
PIR density of 80 kg/m³ for pipe supports with diameters from 42 mm to 219 mm.
The characteristics of the flexible elastomeric foam (FEF) are specified in the technical data sheet EUROBATEX n°01.

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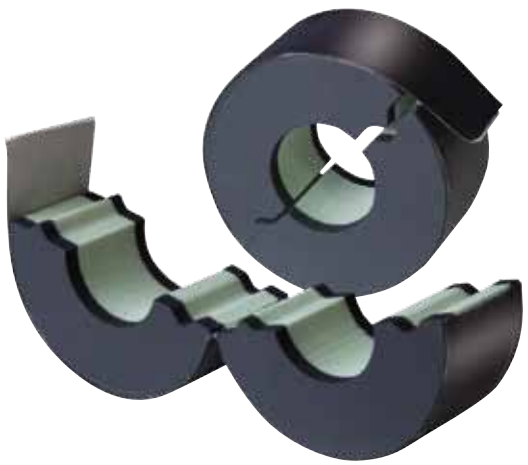
EUROBATEX® PIPE SUPPORTS

Supports with black PVC coating

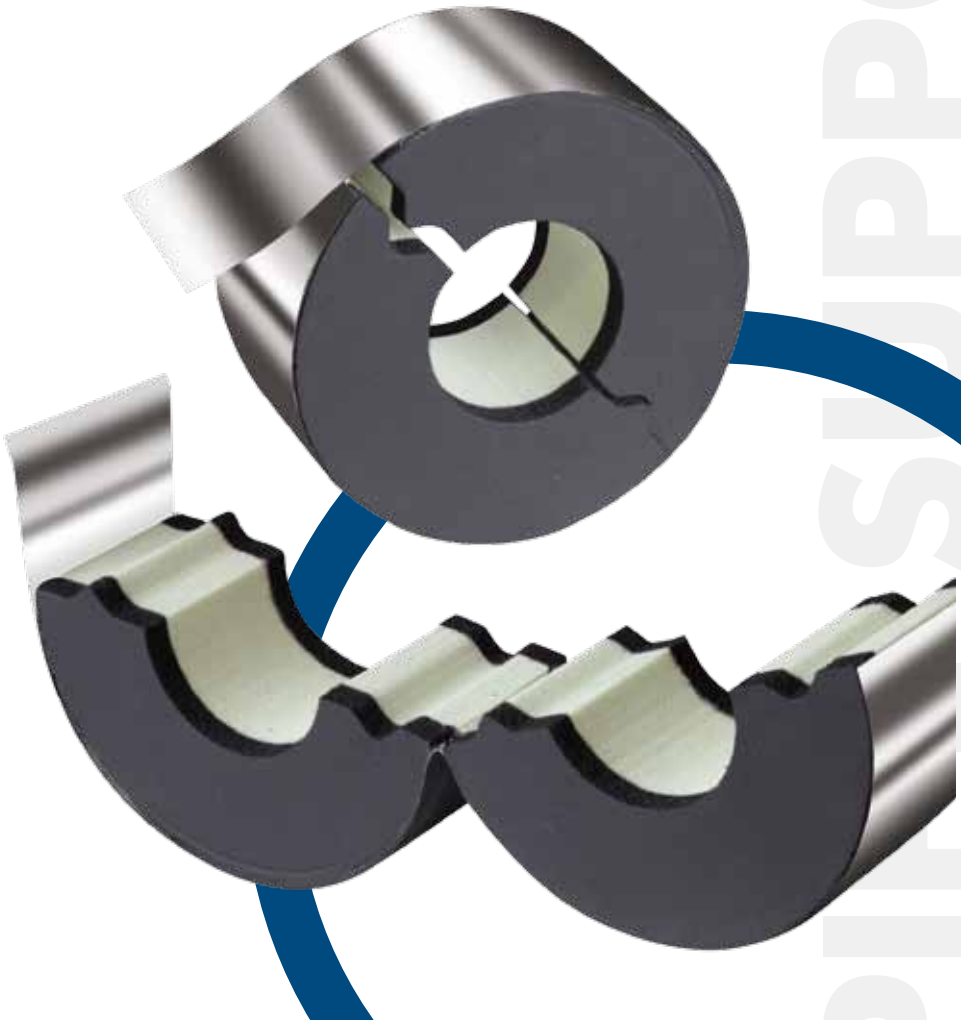
Thickness 13 mm	Thickness 19 mm	Thickness 25 mm	Thickness 32 mm
Piping ø mm	Piping ø mm	Piping ø mm	Piping ø mm
18	18	18	18
22	22	22	22
28	28	28	28
35	35	35	35
42	42	42	42
48	48	48	48
54	54	54	54
60	60	60	60
64	64	64	64
67	67	67	67
70	70	70	70
76	76	76	76
80	80	80	80
89	89	89	89
102	102	102	102
108	108	108	108
114	114	114	114
125	125	125	125
133	133	133	133
140	140	140	140
160	160	160	160
168	168	168	168

Different sizes can be produced on request.



EUROBATEX® HF PIPE SUPPORTS

EUROBATEX HF pipe supports are HALOGEN FREE composite products made of polyurethane foam (PIR) coupled with flexible elastomeric foam (FEF) and aluminium protective covering. These are the ideal solution for insulating shear connectors of piping, creating a barrier against condensation and safeguarding the properties of the insulation material.



PIPE SUPPORTS HF

EUROBATEX® HF PIPE SUPPORTS

TYPE OF MATERIAL:	Expanded polyurethane foam (PIR) coupled with flexible elastomeric foam (FEF) in halogen-free version, with an external aluminium coating
PRODUCT RANGE:	Pipe supports with thickness from 9 to 32 mm and diameters from 17 to 168 mm, lenght 50 mm
FIELDS OF APPLICATION:	Mechanical protection, condensation control and to safeguard the properties of the insulation material on piping in general
ADDITIONAL INFORMATION:	Certified for shipyards, in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU and of the Implementing Regulation (EU) 2018/773
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. The products should not be kept in storage for more than one year

CHARACTERISTICS OF THE POLYURETHANE INSULATION MATERIAL

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
DENSITY	63 kg/m³		EN ISO 845 / EN 1602 ASTM D1622
OPERATING TEMPERATURE RANGE	- 180 °C + 120 °C		EN 14707 / EN 14706
THERMAL CONDUCTIVITY	At a mean temperature of +10 °C	λ ≤ 0,031 W/m·K	EN 12667 / ASTM C518 ASTM C177
WATER VAPOUR TRANSMISSION	1,25 ± 0,41 g/m²·h		EN 12086 / ASTM E96
WATER ABSORPTION	< 2,5%		ISO 2896 / EN 12087 ASTM D2842
PERCENTAGE OF CLOSED CELLS	> 95%		EN ISO 4590 / ASTM D6226
COMPRESSION RESISTANCE	Parallel	0,6 ± 0,06 mPa	EN 826 / ASTM D1621
	Perpendicular	0,44 ± 0,1 mPa	
TENSILE STRENGTH	Parallel	0,83 ± 0,1 mPa	EN 1607 / ASTM D 1623-A
	Perpendicular	0,68 ± 0,13 mPa	
SHEAR STRENGTH	Perpendicular	0,34 ± 0,06 mPa	EN 12090 / ASTM C 273

The characteristics of the flexible elastomeric foam (FEF) are specified in the technical data sheets EUROBATEX HF n° 02.
All the normatives quoted in this document are updated to the latest issued version.
Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

EUROBATEX® HF PIPE SUPPORTS

Halogen Free supports with aluminium covering

Thickness 13 mm	Thickness 19 mm	Thickness 25 mm	Thickness 32 mm
Piping ø mm	Piping ø mm	Piping ø mm	Piping ø mm
18	18	18	18
22	22	22	22
28	28	28	28
35	35	35	35
42	42	42	42
48	48	48	48
54	54	54	54
60	60	60	60
64	64	64	64
67	67	67	67
70	70	70	70
76	76	76	76
80	80	80	80
89	89	89	89
102	102	102	102
108	108	108	108
114	114	114	114
125	125	125	125
133	133	133	133
140	140	140	140
160	160	160	160
168	168	168	168

Different sizes can be produced on request.

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