



INSTALL IT. TRUST IT.

ArmaFlex Ultima C

Pre-covered insulation sheets for the highest safety in case of fire

- // Fire safety - B-s1,d0
- // Free of dust and fibers improving the indoor air quality
- // PVC and bromine free
- // UV Resistant
- // Meets the requirements for sustainable construction in combination with ArmaFlex Ultima SF990 Adhesive



 **armacell**[®]
ArmaFlex[®]

INSTALL IT. TRUST IT.

ArmaFlex Ultima

- ✓
FIRE
SAFETY
- ✓
ENERGY
EFFICIENCY
- ✓
CONDENSATION
CONTROL
- ✓
INDOOR
AIR QUALITY
- ✓
LONG-TERM
SAFE OPERATION

With ArmaFlex Ultima we have set a new safety standard in technical insulation. Based on the patented ArmaPrene® technology, we now offer a complete range of B/B_L-s1,d0 classified tubes and sheets.

In comparison to a standard elastomeric product, the flame-resistant insulation material develops 10 times less smoke and offers increased safety in the event of a fire.

Benefit
from our
10 years
warranty on
ArmaFlex Ultima

ULTRA-LOW SMOKE PROPERTIES

As smoke is a significant risk in a fire, smoke density requirements for equipment insulation materials are becoming stricter. When assessing the fire behaviour of building products, the European fire classification not only tests the flammability, but also the smoke density and the production of burning droplets. By reducing the smoke density, ArmaFlex Ultima improves visibility and respiration, thus extending the time available to evacuate safer in the event of a fire.

RELIABLE THERMAL AND CONDENSATION CONTROL

Thanks to its good thermal conductivity and high resistance to water vapour diffusion, the closed-cell ArmaFlex Ultima ensures reliable condensation control and high energy savings in the long-term. This also minimises the risk of corrosion under insulation (CUI) and reduces the risk of costs associated with downtime, lost productivity, or even facility shutdown. ArmaFlex Ultima can be installed on mechanical equipment with service temperatures between +110 °C and -50 °C (-200 °C)*. It is FM-approved and IMO-certified.

*Please contact our Technical Customer Service for cryogenic applications



ARMAPRENE

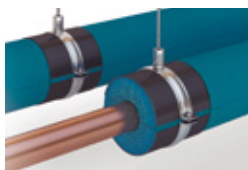
Our patented ArmaPrene technology offers the highest fire standard in flexible insulation.

While standard elastomeric products with brominated flame retardants inhibit combustion very effectively in the event of a fire, they tend to produce a high level of smoke. Our breakthrough ArmaPrene technology resolves this conflict: due to the development of intrinsically flame-resistant polymers and by using ablative protective additives it is no longer necessary to add any brominated flame retardants.



ArmaFlex saves
140
times more energy
than is needed for
its production

SYSTEM SOLUTION FOR MAXIMUM RELIABILITY

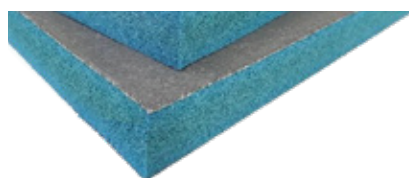


ArmaFlex Ultima pipe support thermally isolates the pipe and its fixing from each

other and, together with the adjoining ArmaFlex Ultima insulation, forms a long-term reliable insulation system. For the installation of ArmaFlex Ultima, we offer a range of specially formulated adhesives, including a solvent-free product which is predestined for sustainable construction projects realised according to LEED®, BREEAM, DGNB or national green building schemes.

ARMAFLEX ULTIMA C

With our new ArmaFlex Ultima C, we now offer insulation sheets meeting the highest fire classification for flexible technical insulation. This pre-covered insulation solution achieves Euroclass B-s1,d0 and is engineered for installation on airducts, large pipe diameters, vessels and tanks where an improved fire performance is required. The sheets provide a high level of protection against mechanical impact and are easy to clean. The covering reinforces the vapour barrier resistance creating a safer system to prevent condensation and energy losses in the long term. What's more, the dark-grey surface is highly absorptive and thinner insulation thicknesses can be installed to control condensation.



APPROVED FOR GREEN BUILDING

ArmaFlex Ultima meets the most stringent environmental requirements and saves specifiers time by being accredited in the most important green building schemes.

SUNDAHUS
NORDIC SWAN ECOLABEL
BYGGVARUBEDÖMNINGEN
MINERGIE-ECO
LEED | BREEAM | DGNB

Bromine-free
Antimony-free
PVC-free

TECHNICAL DATA - ARMAFLEX ULTIMA C

Brief description	Pre-covered flexible elastomeric foam on the basis of patented synthetic rubber composition with improved fire retardant properties, low smoke generation and a closed-cell material structure, laminated with a functional intumescent covering. For use in HVAC, refrigeration and process equipment applications.
Material type	Flexible elastomeric foam based rubber manufactured with ArmaPrene patented technology, US patent no. 8 163 811, EU patent no. 2 261 305. Factory-made flexible elastomeric foam (FEF), according to EN 14304. Self-adhesive equipped intumescent covering
Product colour range	Blue with grey covering
Special features	Low smoke performance.
Applications	Insulation/protection of pipes, air ducts, vessels (including elbows, fittings, flanges, etc.) to prevent condensation and save energy.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature ¹	Min. °C	Max. °C ²
	-50	110
Thermal conductivity		
Declared thermal conductivity	θ_m	0°C
	$\lambda d \leq [W/(m \cdot K)]$	0.040
Fire Performance and Approvals		
Reaction to fire	B-s1,d0	EN 13501-1, EN ISO 11925-2, EN 13823
Fire performance		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames, intumescent coating; very low smoke density	
Physical attributes		
Dimensions and tolerances	in accordance with EN 14304, table 1	EN 822, EN 823, EN 13467
Weather and UV resistance		
UV resistance	Very high	EN ISO 4892-2
Health and environment		
Environmental aspects	Meets the requirements for sustainable construction in combination with ArmaFlex Ultima SF990 adhesive such as LEED.	
Green building assessment	Meets the sustainable construction requirements for LEED v4.1, BREEAM international, WELL v2 and DGNB.	
Additional features	SCCP, MCCP-free	
Other technical features		
Shelf life	Self-adhesive sheets, self-adhesive tape: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

¹For use in temperatures beyond the maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

²+85 °C, for products with a self-adhesive layer.

Sheet – precovered. Blue foam with grey covering

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
UDC-09-99	9	1	2	12 m ²
UDC-13-99	13	1	2	10 m ²
UDC-19-99	19	1	2	8 m ²
UDC-25-99	25	1	2	8 m ²
UDC-32-99	32	1	2	6 m ²
Other information				
Thickness tolerance	9 -19 ± 1,5 mm 25 - 32 ± 2,0 mm			
Length tolerance	± 1,5 %			
Width tolerance	± 2,0 %			
Regulation	B-s1,d0			

Sheet – precovered and self-adhesive. Blue foam with grey covering

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
UDC-09-99/A	9	1	2	12 m ²
UDC-13-99/A	13	1	2	10 m ²
UDC-19-99/A	19	1	2	8 m ²
UDC-25-99/A	25	1	2	8 m ²
UDC-32-99/A	32	1	2	6 m ²
Other information				
Thickness tolerance	9 -19 ± 1,5 mm 25 - 32 ± 2,0 mm			
Length tolerance	± 1,5 %			
Width tolerance	± 2,0 %			
Regulation	B-s1,d0			

Item	Description	Width (m)	Length [m]	Content [quantity]
UDC-FOIL-10	Intumescent foil, self-adhesive	1	10	1 roll

Item	Description	Width [mm]	Length [m]	Content [quantity]
UDC-TAPE-75	Aluminium tape, dark grey colour	75	45	16 roll

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



For more information, please visit:
www.armacell.com