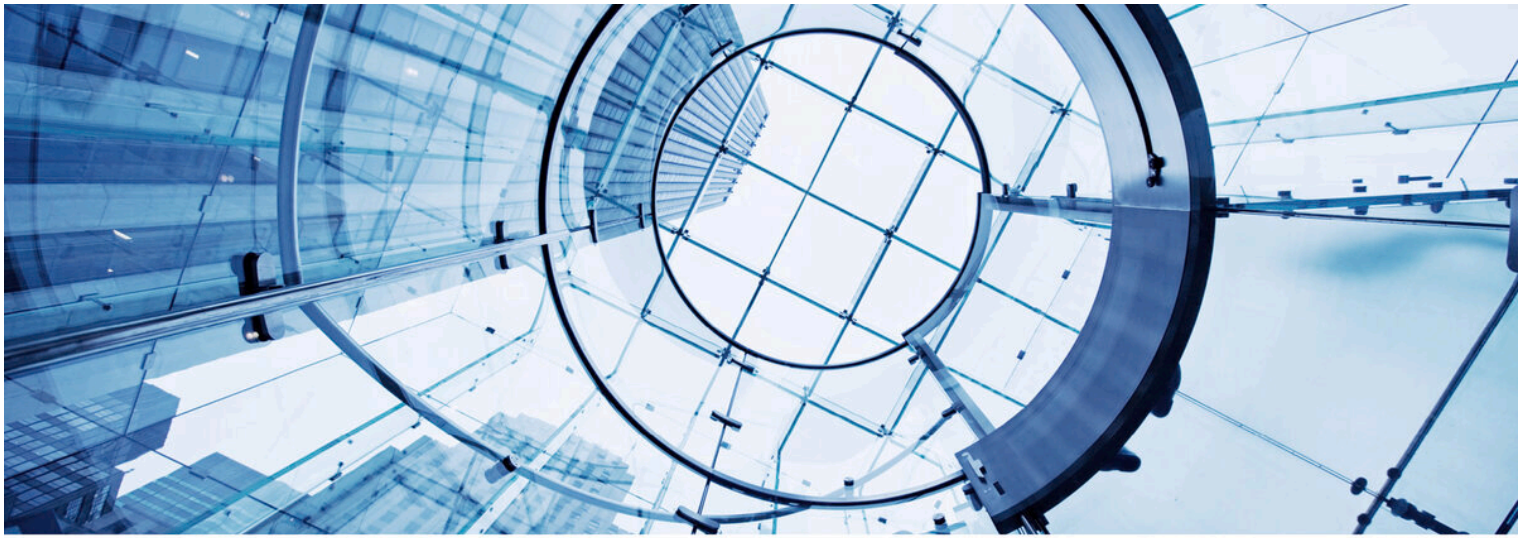

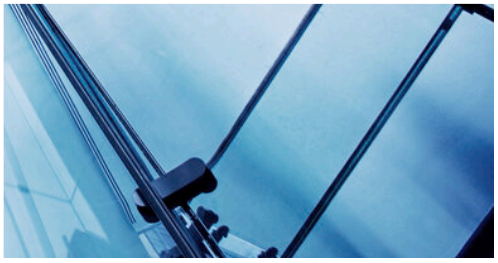

INSTALL IT. TRUST IT.

ArmaFix
Ultima

The only pipe support for B-s1, d0 ArmaFlex systems with low smoke requirements

// Increased safety through superior fire performance and reduced smoke density
// Fully matching the ArmaFlex Ultima product range
// Prevents thermal bridges and reduces energy losses and minimises CO_2 emissions
// First flexible closed-cell insulation with Euroclass B(L)-s1,d0

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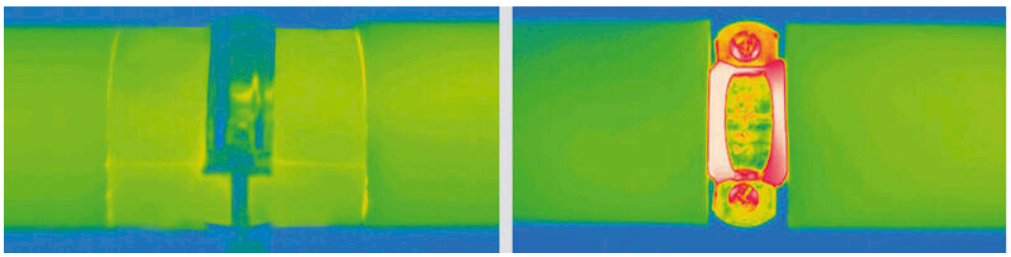


armacell®
ArmaFix™

INSTALL IT. TRUST IT.

ArmaFlex Ultima

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

Based on the patented ArmaPrene® technology, ArmaFlex Ultima is the first flexible technical insulation material in the world with fire class B_L-s1,d0.

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.

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

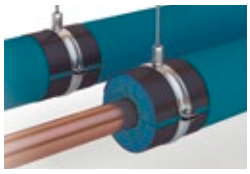
ARMAPRENE

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



ArmaFix 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.

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 - ARMAFIX ULTIMA

Brief description	Pipe and duct support for refrigeration and air-conditioning installations to prevent condensation at fixing points. Thermally non-interacting single piece, with 2 ArmaFORM PET foam sections and with self-adhesive closure. All dimensions are matching the ArmaFlex Ultima range.
Material type	PET-foam bearing segments, embedded in and glued to ArmaFlex Ultima elastomeric foam material. Outside bearing shells made of painted aluminium sheeting 0.8mm thick, which simultaneously serves as a vapour barrier for the PET bearing segments.
Product colour range	Dark blue
Special features	Traces of silicone can be found on the protection paper / foil used to protect self-adhesive closures.
Applications	When used in installations with intermittent temperatures, thermal length extensions may cause inherent pressure in the installation; this needs to be considered in the overall insulation construction.

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature	Min. °C[1]	Max. °C	EN 14706, EN 14707, EN 14304
	-50	110	
Thermal conductivity			
Remarks	Same as ArmaFlex Ultima		EN ISO 13787, EN 12667, EN ISO 8497
Fire Performance and Approvals			
Reaction to fire	Euroclass: E Entire system with ArmaFlex Ultima tubes: B(L)-s1, d0 Entire system with ArmaFlex Ultima sheets: B-s2, d0		EN 13501-1, EN 13823, EN ISO 11925-2
Surface flammability[2]	low-flammable - 2010 FTP-Code (MED 96/98/EC, Module D)		IMO 2010 FTP Code, Part 5
Fire performance			
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames		
Resistance to water vapour			
Water vapour diffusion resistance factor	Same as ArmaFlex Ultima		EN 12086, EN 13469
Physical attributes			
Density	95 - 105 kg/m³ (pipe bearing segments)		
Health and environment			
Additional features	MCCP-free		
Other technical features			
Shelf life	3 years		
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).		

[1] For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

[2] According to IMO 2010 FTP Code annex 2, clause 2.2 a fire technical test for smoke density and toxicity is not necessary.

ArmaFix | ArmaFix Ultima | TDS | 062026 | en-GB

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 insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell 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.

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