



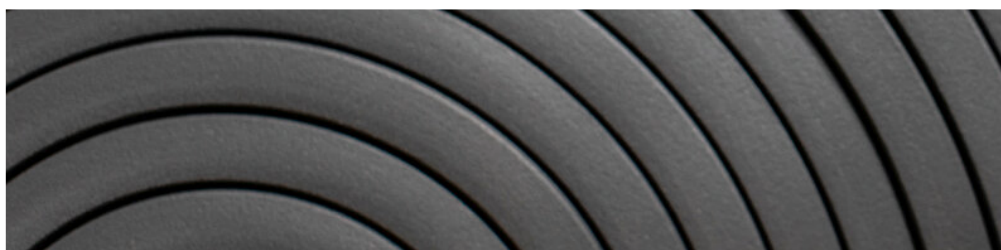
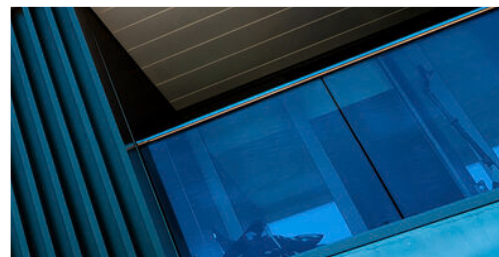
INSTALL IT. TRUST IT.

ArmaFlex ACE Plus

The upgraded flexible insulation solution for improved fire safety

- // Reliable condensation control
- // Effective reduction of thermal losses
- // Optimal range for easy application on most common pipes & duct sizes
- // Increased system security when installed with ArmaFix and ArmaFlex Adhesives

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ArmaFlex[®]

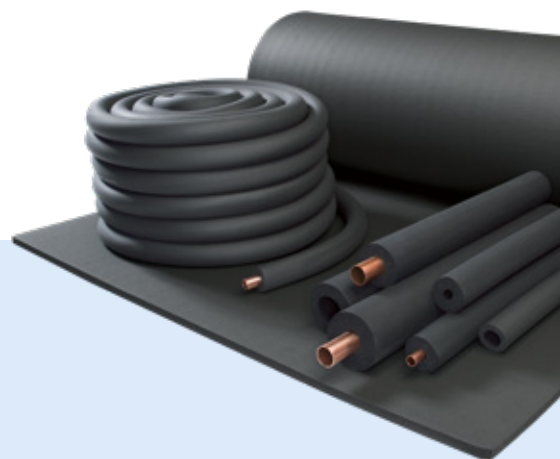
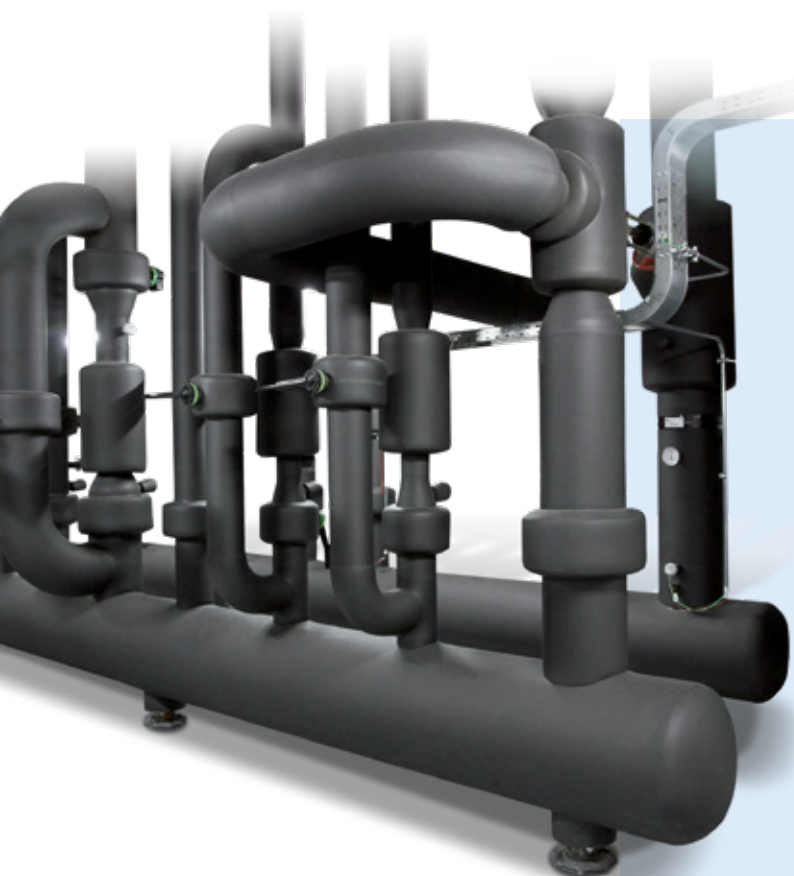
INSTALL IT. TRUST IT.

ArmaFlex ACE Plus

Armacell's ArmaFlex ACE Plus is an insulation material developed on the basis of closed-cell elastomeric foam. It acts as an excellent barrier against condensation due to its high coefficient of resistance to water vapour diffusion. Also, it effectively reduces energy losses from installations and fittings because of its very low thermal conductivity.

Increased fire classification was a top priority during product development which our team of experts successfully met. The material does not participate in the spread of fire. It is also non-drip and self-extinguishing. All this gives ArmaFlex ACE Plus a fire reaction class of B₁-s2,d0 (for tubes) and B-s3,d0 (rolls and tape) according to European standard EN 13501-1.

Thanks to this versatility, this innovative product can be used on air-conditioning systems, refrigeration equipment or ventilation ducts. What's more, the material's flexibility makes it possible to cut easily and conform to preferred shapes.



Our new ArmaFlex ACE Plus insulation range includes tubes (Lap-Seal and Top-Seal) and rolls (standard and self-adhesive). Also, you can use alongside our accessories including self-adhesive tape and ArmaFlex dedicated adhesives.



Technical features

The following technical considerations should be taken into account when specifying thermal insulation products for HVAC-R, process and industrial pipe and ductwork systems.

// Energy saving

Optimal pipe insulation of mechanical equipment, including space heating, domestic hot water or cooling systems - is one of the single most effective measures for improving energy efficiency, prolonging the lifespan of equipment, and reducing associated greenhouse gas emissions.

// Thermal conductivity and condensation control

Thermal conductivity (λ factor), stated in $W/(m \cdot K)$, is the **property of a material's ability to conduct heat**, measured across a $1m^3$ block. For example, a material with a high thermal conductivity such as copper has a value of 386 compared to a low thermal conductivity material such as ArmaFlex ACE Plus at 0.035 at $0^\circ C$ (max. thickness 25mm). Where pipework and services operate at below-ambient temperature water vapour condenses on the surface. If insulation becomes wet it loses thermal performance, leading to colder surface temperatures, condensation and corrosion issues. **Closed-cell ArmaFlex products provide an integral water vapour diffusion barrier** with a μ -value of $\geq 10,000$ (max. thickness 25mm).

// CE marking

CE marking became a mandatory requirement for thermal insulation construction products governed by a European harmonised standard (hEN) in July 2013. **The harmonised standards determine the required characteristics and obligatory properties, including fire behaviour (Euroclasses), dimensions and tolerances, thermal conductivity, dimensional stability and durability characteristics.** Once a product has been tested to meet the required properties, a designation code is printed on the product label to display the specific technical properties required by the hEN. The producer must constantly keep the performance of its products at the declared level and show proof with valid testing certificates e.g. $B_L-s2,d0$

Euroclass	Contribution to fire
A1	Non Combustible
A2	Limited Combustible No Flashover
B	No Flashover
C	Flashover after 10 minutes
D	Flashover before 10 minutes
E	Flashover before 2 minutes
F	No Performance Determined

// The European reaction to fire classification

Fire safety of construction products and building elements in the EU is determined by Euroclasses according to the EN 13501-1 standard. The uniform classification system is based on the performance of products under different fire conditions: the attack of a small flame, exposure to a fully developed fire and some intermediate level. **The main properties determining the Euroclass for a specific product discloses if and how fast a product contributes to the fire.**



// Local regulations for fire protection

The decisions regarding fire reaction classifications of the building elements used in various parts of a building are made at the local level (by country government bodies). The rules for required Euroclass reaction to the fire of products installed in different places within the building are also published locally.

TECHNICAL DATA - ARMAFLEX ACE PLUS

Brief description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity.			
Material type	Elastomeric foam based on synthetic rubber. Factory-made flexible elastomeric foam (FEF), according to EN 14304.			
Product colour range	Black			
Applications	Insulation/protection of pipes, air ducts, vessels (including elbows, fittings, flanges, etc.) of air-conditioning, refrigeration and process equipment to prevent condensation and save energy as well as insulation of pipes in sanitary and heating applications.			
Installation	Please refer to the ArmaFlex application manual for advice. For further information please contact our Customer Service Centre.			
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP			
Property	Value / Assessment		Standard / Test method	
Temperature range				
Service temperature	Min. °C ¹	Max. °C	EN 14706, EN 14707, EN 14304	
	-50	110		
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface +85 °C for tapes		
Thermal conductivity				
Declared thermal conductivity	Øm	0°C	40°C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,035	0,040	
	Range	Tubes, ≤ 25 mm, sheets and tapes		
	Formula	λ(Øm)=[35 + 0.1· Øm + 0.0008 · Øm²]/1000		
Declared thermal conductivity	Øm	0°C	40°C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,036	0,041	
	Range	Tubes > 25 mm		
	Formula	λ(Øm)=[36 + 0.1· Øm + 0.0008 · Øm²]/1000		
Fire Performance and Approvals				
Reaction to fire	Tubes: B{L}-s2, d0 Sheets and Tapes: B-s3,d0		EN 13501-1, EN 13823, EN ISO 11925-2	
Fire performance				
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames			
Resistance to water vapour				
Water vapour diffusion resistance factor	sheets 6-32 mm; tubes 6-25 mm; tape 3 mm: μ ≥ 10,000 sheets >32 mm; tubes >25 mm: μ ≥ 7,000		EN 12086, EN 13469	
Physical attributes				
Dimensions and tolerances	In accordance with EN 14304, table 1		EN 822, EN 823, EN 13467	
Weather and UV resistance				
UV resistance ²	Protection against UV-radiation is necessary. See TB 142			
Health and environment				
Volatile organic compounds (VOC) content	Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD).		ISO 16000 Parts 3, 6 & 9	
Antimicrobial behaviour	antimicrobial insulation, resistance against mould and bacteria in accordance with ISO 846			
Environmental Product Declaration (EPD)	Type III Environmental Product Declaration (EPD)		ISO 14025, EN 15804+A2	

Property	Value / Assessment	Standard / Test method
Green building assessment	Meets the sustainable construction requirements for LEED v4.1, BREEAM international and DGNB.	
Additional features	SCCP, MCCP-free	
Other technical features		
Shelf life	Self-adhesive tapes, self-adhesive sheets: 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 temperatures below -50 °C please contact our Customer Service Centre to request for the corresponding technical information.

²If ArmaFlex is applied under UV-radiation, the material must be protected within 3 days with paint or a covering.

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

DIGITAL INFORMATION FLOWS

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES*

OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

LABELLING

- Extra label for transport instructions

EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service* by which pallets can be handed at Armacell collection points.

* Please contact your local Customer Service Centre to see which of these services apply to your country.

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.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our Data Protection Policy.

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ArmaFlex | ArmaFlex ACE Plus | TDS | 072026 | en-RO

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.



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