



CLEANER INDOOR AIR QUALITY
FOR OPERATIONAL RELIABILITY

ArmaFlex[®] Pro

The preferred dust- and fibre-free insulation
for cleaner indoor air quality and reliable
condensation control

- // Fibre-free insulation for cleaner indoor air quality - an important criteria in mission-critical environments where dust cannot be tolerated
- // Reliable condensation control performance in facilities that operate continuously, such as data centres, server rooms and hospitals
- // Meets criteria of Singapore Civil Defence Force for construction material containing plastic for wall and ceiling material / finishes
- // Active antimicrobial protection for reliable resistance against mould and bacteria

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 **armacell[®]**
ArmaFlex[®]

TECHNICAL DATA - ARMAFLEX PRO

Brief description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity. ArmaFlex Pro also meets the Singapore Fire Code requirement for wall and ceiling material/finishes.
Material type	Elastomeric foam based on synthetic rubber (nitrile butadiene), with reinforced aluminum foil facing.
Colour	Black foam with silver facing.
Special feature	Aluminium foil surface with bright silver finish.
Product range	Sheets with 13mm, 19mm and 25mm insulation thickness.
Applications	Installed in data centres and rooms that operate 24 hours daily to prevent condensation and enable energy efficiency through insulation.
Installation	Both the concrete surface and the insulation material should be clean and dry for optimal adhesion. If required, wipe both surfaces with a solvent to ensure an oil-free surface. Care should be taken that the cement surface does not soak up too much adhesive as the surface could dry too quickly and lose its adhesiveness. Application of a bitumen-free prime coat is advised. Install ArmaFlex insulation material according to the recommendations detailed in the latest ArmaFlex application manual. This installation advice also applies to application of ArmaFlex on masonry.
Remark	Due to the nature of the elastomeric foam product, shrinkage can happen due to differences in temperature and result in some wrinkling on the surface. This is normal and has no impact on product performance.

Property	Value/Assessment				Standard/Test method
Temperature range					
Service temperature	Range	Minimum [°C]		Maximum [°C]	
	Full range	-50		+85	
	Remarks	Contact Armacell for applications beyond recommended service temperature range.			
Thermal conductivity					
Declared thermal conductivity	θ_m	0 °C	+23 °C	+40 °C	ASTM C518
	$\lambda_d \leq [W/(m \cdot K)]$	0.034	0.036	0.039	
Resistance to water vapour					
Water vapour diffusion resistance factor	$\mu \geq 10,000$				EN 12086
Fire performance					
Surface spread of flame	Class 1				BS 476 Part 7
Fire propagation for products	Class 0				BS 476 Part 6
Smoke generation and toxicity	CIT < 0.75 VOF ₄ < 300 min				EN 45545-2 ISO 5659-2

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with our Technical department in due time whether or not the data and information apply to the intended application area..

Sheet – precovered

Insulation thickness [mm]	1.20m width			
	Item	Length [m]	Carton content [pcs]	Carton content [sqm]
13	ARO-13120/AL	2.00	22	52.8
19	ARO-19120/AL	2.00	16	38.4
25	ARO-25120/AL	2.00	12	28.8

Sheet – precovered self-adhesive

Insulation thickness [mm]	1.20m width			
	Item	Length [m]	Carton content [pcs]	Carton content [sqm]
13	ARO-13120/A-AL	2.0	22	52.8
19	ARO-19120/A-AL	2.00	16	38.4
25	ARO-25120/A-AL	2.00	12	28.8

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,200 employees and 27 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 high-tech and lightweight applications and next generation aerogel blanket technology.



For more information, please visit:
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