

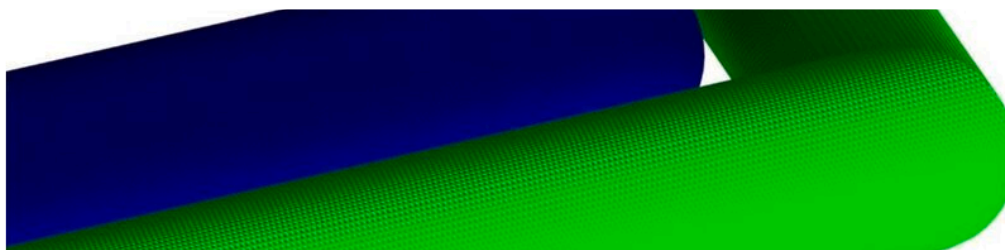
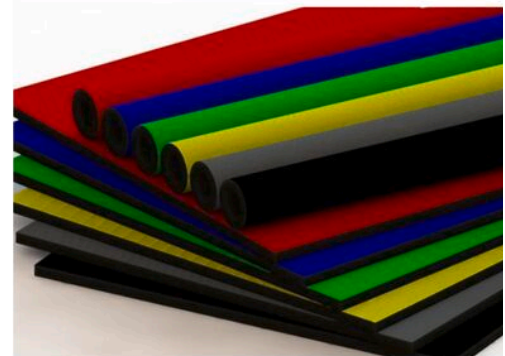
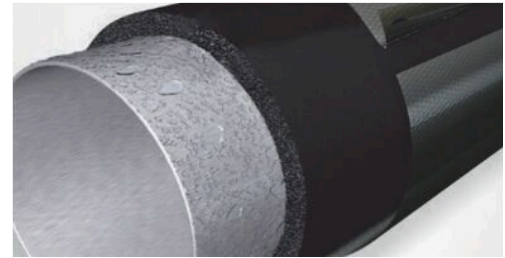
RESISTANCE TO MECHANICAL  
IMPACT AND EXCELLENT  
WEATHERING PROTECTION

# ArmaFlex

## Class 0 with ArmaClad Dura

Reliable insulation material with  
covering system that provides effective  
long term weathering protection.

- // Pre-covered insulation system with 6 color options
- // Excellent UV resistance and weathering protection
- // Superior aesthetics and ease in identification
- // Faster installation with pre-covered sheets and tubes
- // Good resistance to mechanical impact and scratch
- // No discolouration
- // Highly recommended for outdoor applications



 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>

ECONOMICAL PRECOVERED ARMAFLEX SYSTEM FOR RESISTANCE TO MECHANICAL IMPACT AND EXCELLENT WEATHERING PROTECTION

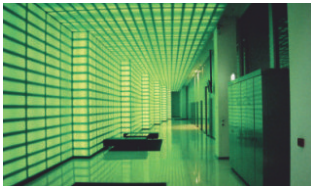
# ArmaFlex Class 0 With ArmaClad Dura

ArmaClad Dura is pre-covered flexible insulation system with 6 color options with proprietary flexible covering system that provides effective long term weathering and mechanical protection to ArmaFlex substrates. Good resistance to mechanical impact and puncture, faster installation with pre-covered sheets, tubes and stand alone for better aesthetics and ease of identification with base foam declared as class 0 fire performance & FM approved.

Aesthetically Appealing

Easy to Install

Energy Efficient



## Benefits

// Excellent weathering resistance  
Compliant to ISO 4892-2 artificial weathering condition and suitable for outdoor installation.

// Retention of color  
No discolouration of the covering under outdoor application conditions

// Aesthetically appealing  
Durable and high resistance to mechanical abuse and aesthetically appealing and available in 5 different colours – red, blue, black, green & grey.

// Easy to install  
Highly flexible elastomeric foam that can be installed quickly on irregular shapes and installations in tight spaces.

// Excellent fire performance  
FM approved for entire range of insulation thickness.

// Closed-cell structure  
Minimizes moisture penetration to ensure long-term protection against corrosion under insulation (CUI).

// Condensation control  
High resistance to water vapour ensures that the surface temperature remains above dew point, removing the need for an additional water vapour barrier.

// Energy Efficient  
Low thermal conductivity minimises energy losses to give long term energy savings.



## TECHNICAL DATA - ARMAFLEX CLASS 0 WITH ARMACLAD DURA

Brief description	ArmaFlex Class 0 with ArmaClad Dura is a flexible insulation foam based on synthetic rubber with polymeric covering reinforced with polyester scrim that provides effective protection against mechanical impact and puncture and suitable for outdoor applications. The ArmaClad Dura coverings are available in six colour options, and can facilitate ease in identifying different pipelines, such as hot and cold lines.
Material type	Flexible elastomeric foam based on synthetic rubber (nitrile butadiene rubber) with polymeric covering reinforced with polyester scrim.
Product colour range	Black base foam material., Coverings are available in black, grey, red, blue, yellow and green colour.
Product range	Available in pre-covered plain and self-adhesive sheets in 6 mm, 9 mm, 13 mm, 16 mm, 19 mm, 25 mm & 32 mm thickness. ArmaClad Dura pre-covered tubes are available with self-seal / without self-seal 9 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm thickness.
Applications	Insulation of hot and cold water pipes, chilled water lines, heating systems, air conditioning ductwork, refrigerated pipework, process and industrial pipework and equipment, both indoor and outdoor conditions to prevent condensation, reduce energy losses, prevent scratches, mechanical damage and frost on pipes, air ducts and vessels.
Installation	ArmaFlex can be used together with a variety of ArmaFlex adhesives such as, ArmaFlex Pipe Seal / ArmaFlex Duct Seal / ArmaFlex 520 adhesive and ArmaFix for a complete insulation system.

Property	Value / Assessment				Standard / Test method
<b>Temperature range</b>					
Service temperature	Min. °C	Max. °C			EN 14706, EN 14707, EN 14304
	0.0	105			
	Remarks	+85 °C if sheet is glued to the object with its whole surface.			
<b>Thermal conductivity</b>					
Declared thermal conductivity	Øm	0 °C	20 °C	40 °C	EN 12667, EN ISO 8497
	$\lambda_d \leq [W/(m \cdot K)]$	0.035	0.037	0.039	
<b>Fire Performance and Approvals</b>					
Surface spread of flame	Class 1				BS 476 Part 7
Fire propagation for products	Total index performance (I) $\leq 12$ Sub index (i <sub>1</sub> ) $\leq 6$				BS 476 Part 6
Burning behaviour of building materials and products	Class 0				BS 476 Part 6
Surface flammability	HB, V-0				UL 94
FM approved	Yes				FM 4924
<b>Fire performance</b>					
Practical fire behaviour	Self-extinguishing, does not drip and does not spread flames.				
<b>Resistance to water vapour</b>					
Water vapour diffusion resistance factor	$\mu \geq 7,000$				EN 12086, EN 13469
<b>Resistance to water</b>					
Water absorption	0.2% (By Volume)				ASTM C1763
<b>Corrosion mitigation</b>					
Corrosiveness to metal	Galvanic corrosion: No risk				
<b>Mechanical properties</b>					
Tensile strength	>1.5 MPa (as per DIN EN ISO 1978)				
Tear strength	>38.0 kN/m				ISO 34-1

Property	Value / Assessment	Standard / Test method
Resistance to mechanical impact	Good	
<b>Weather and UV resistance</b>		
UV resistance	Good, suitable for outdoor applications, use recommended mastic over joints.	
Weather resistance	UV and Moisture Test passed	EN ISO 4892-2
<b>Health and environment</b>		
Environmental aspects	Zero ozone depletion potential and zero global warming potential.	
<b>Other technical features</b>		
Storage	Material shall be stored in dry and clean areas, away from direct sunlight.	

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## ABOUT ARMACELL

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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](http://www.armacell.com)