

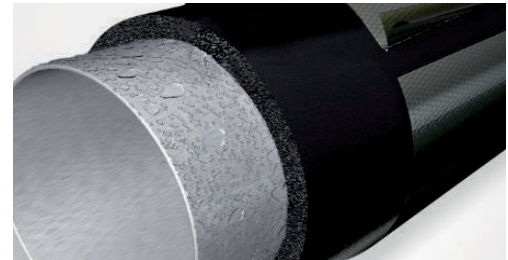
ECONOMICAL PRECOVERED ARMAFLEX SYSTEM  
FOR RESISTANCE TO MECHANICAL IMPACT AND  
EXCELLENT WEATHERING PROTECTION

# ArmaFlex Class 0 with ArmaClad Dura

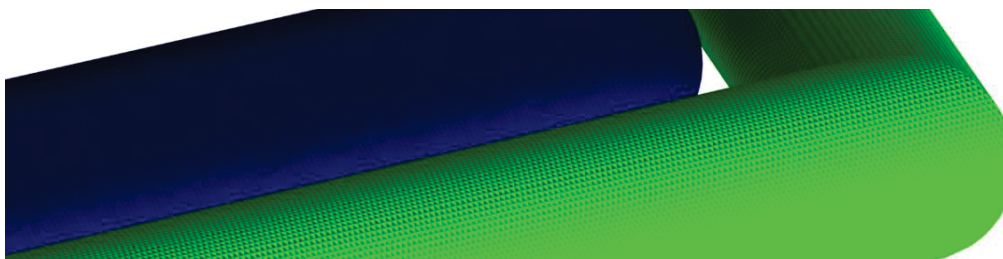
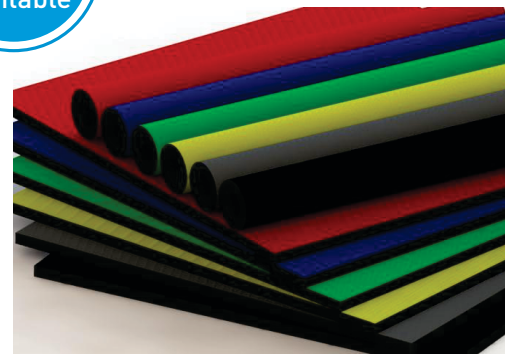
Reliable insulation material with covering system that  
provides effective long term weathering protection.

- // 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 discoloration
- // Highly recommended for outdoor applications

[www.armacell.in](http://www.armacell.in)



Six color  
options  
available



 **armacell**<sup>®</sup>  
ArmaClad<sup>™</sup>

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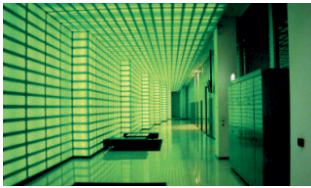
# ArmaFlex Class 0 With ArmaClad Dura

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 ARMA-CLAD 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 scri.					
Colour	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.					
Assembly	ArmaFlex can be used together with ArmaFlex Pipe Seal / ArmaFlex Duct Seal / ArmaFlex 520 adhesive and ArmaFix pipe hangers for a complete insulation system. Please refer to the ArmaFlex installation manual for advice.					
Property	Value/Assessment				Standard/Test method	
Temperature range <sup>1</sup>						
Service temperature	Maximum service temperature	+105 °C	+85 °C if sheet or tape is glued to the object with its entire surface.		Tested according to EN 14706, EN 14707, EN 14304	
	Minimum service temperature	0 °C				
Mechanical Properties						
Strength	Tear Strength-	>38.0 kN/m			Tested according to DIN ISO 34-1, DIN EN ISO 1978	
	Tensile Strength-	>1.5 MPa				
Thermal conductivity <sup>1</sup>	0m	+/-0	+20	+40	[°C]	Tested according to EN 12667, EN ISO 8497
	λ ≤	0.035	0.037	0.039	W/(m.k)	
Water vapour diffusion resistance <sup>1</sup>						
Water vapour diffusion <sup>2</sup> resistance factor	μ ≥ 7,000				Tested according to EN 12086, EN 13469	
Water absorption <sup>1</sup>						
Water absorption (by volume)	0.2%				Tested according to ASTM C 1763	
Fire performance and approvals						
Fire performance according to building regulations <sup>1</sup>	Class 0				Tested according to BS 476 Part 6:1989	
Fire propagation <sup>1</sup>	Total index performance (I) ≤ 12 Sub index (i <sub>i</sub> ) ≤ 6					
Surface spread of flame <sup>1</sup>	Class 1				Tested according to BS 476 Part 7:1997	
Flammability <sup>1</sup>	HB, V-0				Tested according to UL-94	
FM-approved <sup>1</sup>	Yes				Tested according to FM 4924	
Practical fire behaviour <sup>1</sup>	Self-extinguishing, does not drip and does not spread flames.					
Other technical features						
Resistance to mechanical impact	Good					
UV resistance	Good, suitable for outdoor applications, use recommended mastic over joints.					
Artificial weathering	UV and Moisture Test passed				Tested according to EN ISO 4892-2 method A & B	
Galvanic corrosion	No risk					
Environmental aspect <sup>1</sup>	Zero ozone depletion potential and zero global warming potential.					
Storage	Material shall be stored in dry and clean areas, away from direct sunlight.					

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. Please refer to the ArmaFlex and Arma-Chek installation manual or take support from Armacell Application engineers to confirm/understand the installation process. There may be slight discoloration of the covering in outdoor applications, but this will have no negative impact on the functionality of the product.

[1] All data and technical information are provided above are based on results achieved under tests certified by the respective testing authorities for base foam only and not the complete system.

[2] The results are based on controlled test conditions and subject to change without prior notice.

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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 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 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)

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**ArmaClad™**