

ECONOMICAL PRECOVERED ARMAFLEX SYSTEM
FOR RESISTANCE TO MECHANICAL IMPACT

ArmaFlex[®] Class 0 with Arma-Chek[®] GC

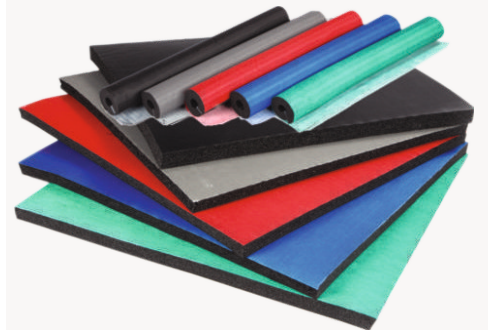
Reliable insulation material with covering system that provides effective long term mechanical protection.

- // Pre-covered insulation system with 5 colour options
- // Good resistance to mechanical impact and scratch
- // Faster installation with pre-covered sheets and tubes
- // Better aesthetics and ease in identification
- // Closed-cell structure prevents water vapour ingress
- // No risk of galvanic corrosion

www.armacell.in



AVAILABLE IN 5 COLORS!



 **armacell[®]**
Arma-Chek[®]

ECONOMICAL PRECOVERED ARMAFLEX SYSTEM FOR RESISTANCE TO MECHANICAL IMPACT

ArmaFlex Class 0 With Arma-Chek GC

Arma-Chek GC is pre-covered flexible insulation system with 5 colour options with woven glass fibre covering system that provides effective long term mechanical protection to ArmaFlex substrates. Good resistance to mechanical impact and scratch, faster installation with pre-covered sheets and tubes for better aesthetics and ease of identification with class 0 fire performance & FM approved.

Aesthetically Appealing



Easy to Install



Energy Efficient



Benefits

// Excellent fire performance

FM approved for entire range of insulation thickness. Certified to conform to safety, reliability and performance standards of various local fire safety bodies.

// Closed-cell structure

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

// Economical covering system

Good resistance to mechanical impact and scratch with ultra violet and oil resistant and no risk of galvanic corrosion.

// 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.

// Energy efficient

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

// 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.

TECHNICAL DATA - ARMAFLEX CLASS 0 WITH ARMA-CHEK GC

Brief description	ArmaFlex Class 0 with Arma-Chek GC is a flexible insulation material with woven glass fibre covering that provides effective protection against mechanical impact and scratches. The Arma-Chek GC coverings are available in five colour options, and can facilitate ease in identifying different pipelines, such as hot and cold lines.
Material type	Elastomeric foam based on synthetic rubber (nitrile butadiene rubber) with reinforced glass cloth covering.
Colour	Black base foam material. Coverings are available in black, grey, red, blue 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. Arma-Chek GC 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, 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 ²												
Service temperature	Maximum service temperature	+105 °C										
	Minimum service temperature	0 °C										
Thermal conductivity²												
	<table border="1"> <thead> <tr> <th>0m</th> <th>+/-0</th> <th>+20</th> <th>+40</th> <th>[°C]</th> </tr> </thead> <tbody> <tr> <td>$\lambda \leq$</td> <td>0.035</td> <td>0.037</td> <td>0.039</td> <td>W/(m·k)</td> </tr> </tbody> </table>	0m	+/-0	+20	+40	[°C]	$\lambda \leq$	0.035	0.037	0.039	W/(m·k)	Tested according to EN 12667, EN ISO 8497
0m	+/-0	+20	+40	[°C]								
$\lambda \leq$	0.035	0.037	0.039	W/(m·k)								
Water vapour diffusion resistance ²												
Water vapour diffusion resistance factor	$\mu \geq 7,000$	Tested according to EN 12086, EN 13469										
Water absorption ²												
Water absorption (by volume)	0.2%	Tested according to ASTM C 1763, ASTM C 209										
Fire performance and approvals												
Fire performance according to building regulations ²	Class 0	Tested according to BS 476 Part 6:1989										
Fire propagation ²	Total index performance (I) ≤ 12 Sub index (i ₁) ≤ 6											
Surface spread of flame ²	Class 1	Tested according to BS 476 Part 7:1997										
Flammability ²	HB, V-0	Tested according to UL-94										
FM-approved	Yes	Tested according to FM 4924										
Practical fire behaviour ²	Self-extinguishing, does not drip and does not spread flames.											
Other technical features												
Resistance to mechanical impact	Good											
UV resistance ¹	Good, suitable for outdoor applications, use recommended mastic over joints.											
Artificial weathering	UV Testing - Pass	Tested according to EN ISO 4892 method A										
Galvanic corrosion	No risk											
Environmental aspect ²	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 Arma-Chek installation manual for advice. There may be some discolouration of the covering in outdoor applications, but this will have no negative impact on the functionality of the product.

[1] In outdoor applications there may be discolouration of the covering, but it will not have any negative effect on the functionality of the product.

[2] 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.

Contact information or visiting card



All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. 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. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

© Armacell, 2020. ® and ™ are trademarks of the Armacell Group and is registered in the European Union, United States of America, and other countries. MICROBAN® is a registered trademark of Microban Products Company.
00123 | Arma-Chek GC | Arma-Chek | TDS | 072020 | IN | EN

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 3,135 employees and 24 production plants in 16 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.



Scan QR code for digital copy

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

 **armacell**[®]
Arma-Chek[®]