



ARMA-CHEK R

FLEXIBLE NON-METALLIC COVERING
FOR OFFSHORE AND INDUSTRIAL
INSTALLATIONS



- Flexible polymeric covering formulated with CSM (CSPE) with combined acoustic barrier performance
- Excellent mechanical and weathering protection
- Specially developed for use in offshore and industrial environments
- Mitigates the risk of corrosion under insulation (CUI)
- Resistant to UV, salt water and chemicals
- In-built water vapour barrier $\mu > 50.000$
- IMO certified



Technical Data - Arma-Chek R [ES]

Brief description	Flexible covering system for elastomeric and other insulation material types. Especially developed for use in offshore and industrial environments.
Material type	Flexible EPDM rubber formulated with Chlorosulphonated Monomer (CSM) also known as CSPE.
Colour	Grey
Product Range	Sheets in rolls, 1 and 2 mm thickness / width 700 and 1,400 mm Arma-Chek Mastic is available for sealing of joints and seams.
Applications	Mechanical and weathering protection of insulated pipework, fittings, vessels and equipment in offshore, heavy industry, chemical and petrochemical environments.
Special Features	Exceptional resistance to UV attack, salt water and mechanical impact. Reduces the risk of Corrosion Under Insulation (CUI). Excellent acoustic performance with natural dampening properties to reduce re-radiation effects.
Assembly	The Armaflex® and Arma-Chek installation manuals should be consulted before assembly. Please consult our Technical Services.

Property	Value/Assessment			Special Remark
Temperature Range				
Temperature Range	max. service temperature ¹		+100 °C	
	min. service temperature		- 50 °C	
Thermal Conductivity				
Thermal Conductivity	Depending on insulation used. System thermal performance depends on properties and configuration of individual layers.			
Water vapour diffusion resistance				
Water vapour diffusion resistance	μ	≥	50.000	Tested according to EN 12086 and ASTM E96 Procedure A
	Perm inch	≤	0,003	
Fire performance				
Reaction to fire	Euroclass		B-s3,d0	Classified according to EN 13501-1 Tested according to EN 13823 and EN ISO 11925-2
Other Fire Class	Part 2 and Part 5 (IMO 2010 FTP Code) ASTM E 84 BS 476 Part 6 and Part 7 NFP 92-507		Pass Class A (< 25 flame spread index) Class 0 and Class 1 M1	IMO Approved by DNV
Other technical features				
Density	1650 to 1750 kg/m³			Tested according to ISO 845, ASTM D1622
Resistance to mechanical impact	Good			
Tear strength	> 7,0 N/mm (MD/CD)			Tested according to ISO 34-1 - Method B, procedure b
Tensile strength	> 5,0 MPa (MD)			Tested according to ISO 37 - Type II sample
Elongation	> 200 %			Tested according to ISO 37 - Type II sample
Hydrostatic pressure resistance of joints ²	no leak at 6.89 bar (70.4 m) / 100 psi			Tested according to ASTM D5385
Weather resistance	Weather resistanceExcellent			Assessed according to Allunga Exposure Laboratory
Ozone Resistance	Excellent			Tested according to DIN 53509-1
UV resistance	Excellent			Tested according to EN ISO 4892-2
Fungi Resistance ²	No growth			Tested according to ASTM C1338
Acoustic Insertion Loss	When used as part of a system Arma-Chek R complies to ISO 15665 Classes A to C and Shell DEP 31.46.00.31-Gen Class D.			Tested according to ISO 3741 and ISO 15665 (equivalent method ASTM E1222)

1. For temperatures above or below those indicated in the "temperature range" above, please contact our Customer Service Center to request for the corresponding technical information.

2. Based on single test results. Can be used for information / reference only

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 us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Arma-Chek installation manual. Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 or Armaflex HT 625 Adhesive must be used to guarantee proper installation. 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. However, Armacell cannot guarantee that the data are 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

Arma-Chek R [ES] covering endless



Code	Thickness [mm]	Width [mm]	Length [m]	m ² /roll
RCS-R10/1-14-GY	1	1.400,0	10	14
RCS-R10/2-07-GY	2	700,0	10	7
RCS-R20/1-07-GY	1	700,0	20	14

Arma-Chek R [ES] accessories



Code	Article description	Pieces/carton
ACH-MASTICS	Sealing compound for installing Arma-Chek R, Cartridge 290 ml	12
ADH-HT625/1,0	Armaflex® HT625 one-component adhesive, 1,0 litre cans	12
CLEANER/1,0	Special cleaner for use with Armaflex® Adhesive 520 and Armaflex® Adhesive HT625.	4

