

INSULATION FOR THE  
OIL AND GAS INDUSTRY

# Arma-Chek<sup>®</sup> Mastic

Professional sealant for  
installations in industrial areas

- // Provides additional protection to all Arma-Chek glued seams
- // Ensures durable, vapour tight bonding
- // Fast and precise application with convenient cartridges
- // Industrial grade sealant specially formulated for Arma-Chek R coverings
- // Excellent UV and weathering resistance

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 **armacell**<sup>®</sup>  
Arma-Chek<sup>®</sup>

## TECHNICAL DATA – ARMA-CHEK MASTIC

Brief description	Arma-Chek mastic is an adhesive and a sealing product designed to give additional and long life protection to all Arma-Chek D and Arma-Chek R glued seams and joints in external environment.
Material type	Sealant based on silane modified polymers.
Colour	Grey
Product range	290 ml cartridges.
Applications	Before applying the mastic to all seams and joints, check that they are completely sealed with the correct type of ArmaFlex® adhesive, and securely fixed down. Check that the seams and joints are clean, dry and free from contamination before applying the mastic. All seams and joints shall have a minimum thickness of 10 mm wide and 3 mm thick mastic "beading" applied.
Assembly / installation	The ArmaFlex® and Arma-Chek® installation manuals should be consulted before assembly. Please contact Technical Services.
Remarks	The Arma-Chek Mastic should not be used on a stand alone basis to fix and bond the coverings.

Property	Value/Assessment			Special Remark
<b>Temperature range</b>				
Service temperature	Max. service temperature	+120 °C	+248 °F	Tested <sup>1</sup> according to EN 14706.
	Min. service temperature	-40 °C	-40 °F	
<b>Mechanical properties</b>				
Tensile strength	≥ 3.2 MPa			Tested <sup>2</sup> according to ISO 37
Elongation	≥ 250 %			
Hardness	≥ 55 Shore A			Tested according to ISO 7619
<b>Corrosion mitigation</b>				
Leachable (water-soluble) chlorides	≤ 30 ppm (mg/kg or µg/g)			Tested <sup>3</sup> according to EN 13468 and ASTM C871
<b>Other technical features</b>				
Ozone resistance	Excellent			Tested <sup>4</sup> according to DIN 53509
UV resistance <sup>5</sup>	Excellent			Tested according to ISO 4892-2
Application conditions	Application temperature <sup>6</sup>	+ 5 °C till + 35 °C	+41 °F to +95 °F	
	Max. relative humidity:	80%		
Working time <sup>7</sup>	Open time: < 15 min. Skin forming time: < 13 min. Curing speed after 24 hrs: appr. 3 mm			At 23 °C and 50 % relative humidity.
Storage	Should be stored in cool and dry rooms. Recommended storage temperature 5-30 °C. The container should be kept dry and sealed. Packaging must be emptied of all residues. Packaging with traces of cured product can be recycled. Packaging with uncured product must be disposed of in the same manner as the medium.			
Shelf life	18 months			
Recycling	Please refer to Safety Data Sheet			

1. Tested in a system comprising of ArmaFlex and Arma-Chek R covering.

2. Dumb-bell type II test piece.

3. Specimen preparation in accordance with EN 13486; neither cut, ground nor blended. Test temperature +100°C, leaching time 0.5 hours as specified in the standard for product maximum service temperature.

4. Tested at 48h/25 ± 5 ppm / 20 ± 2 % elongation / no cracks.

5. (Xenon-arc) with 5000 hr exposure and +60 °C black-panel temperature. 1000h: no cracking, no visible discoloration. 3000/5000h: cracking under microscope, slight discoloration.

6. For the avoidance of doubt, the term 'application temperature' refers to the ambient temperature during application and the surface temperature of the substrate (e.g. Arma-Chek R covering) to which the product is installed. In some cases it may be necessary to avoid exposure of the substrate to strong sunlight. Please contact Technical Services for further recommendations and guidance on the use of Arma-Chek Mastic.

7. The application temperature shall not exceed +35°C for a period of 6 to 8 hours following application and shall not fall below +5°C for the entire duration of the cure. The cure duration depends on ambient air humidity and temperature and on the thickness of the bead. Please contact Technical Services for further recommendations and guidance on the use of Arma-Chek Mastic.

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 regulations and project specification 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.

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## ABOUT ARMACELL

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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 3,000 employees and 27 production plants in 17 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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