

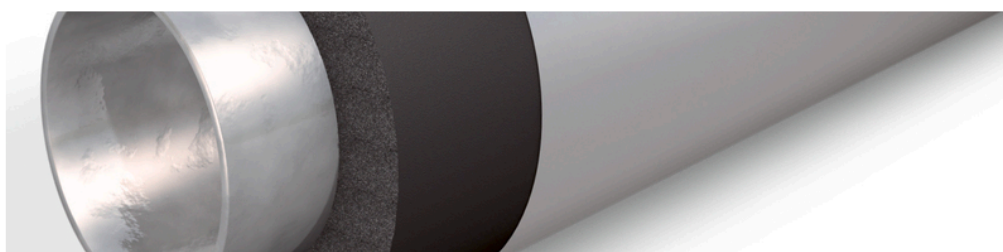
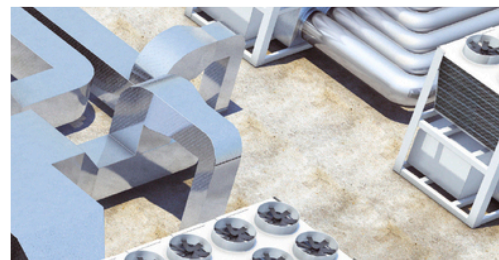
RESILIENT, RUST-FREE  
PROTECTIVE COVERING

# Arma-Chek Silver 350

A protective covering designed to provide mechanical, weather and UV protection for thermal insulation materials.

- // Excellent UV and weather resistance
- // Non-metal finishing, rust-free
- // Highly resistant to deformation from impact
- // Prefabricated elbows, tees and end caps available for easy installation

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



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MAKING A DIFFERENCE AROUND THE WORLD

RESILIENT, RUST-FREE PROTECTIVE COVERING

# ArmaClad Arma-Chek Silver 350

A protective covering designed to provide mechanical, weather and UV protection for thermal insulation materials. Unlike metal jacketing, Arma-Chek Silver 350 is a multilayer laminate and will not rust. Fast and easy to install, it is the ideal protection for hot and cold insulation systems.

Excellent weather resistance



Resistant to deformation



Easy to install



UV protective PET polyester layer



Aluminium foil layer



Strong polymer base





## PRODUCT ADVANTAGES

### // Protective covering composed of multiple material layers

Made of layers of aluminium and plastic composite material, it is rust-free and reduces the risk of galvanic corrosion.

### // Excellent weather resistance

No obvious ageing observed during 15,000 hours accelerated ageing test. Suitable for outdoor conditions (high UV intensity, rain and high temperature).

### // Resilient to deformation

High puncture and tear resistance that prevents surface extrusion deformation. Unlike conventional metal coverings, it recovers to its original shape after being subjected to surface pressure, preventing permanent dents.

### // Easy to install

Requiring far less skills than conventional metal cladding, its joins are easily secured with ArmaFlex 520 adhesive or plastic rivets. Overlaps are sealed with our composite aluminium Armaclad Arma-Chek Silver tape to complement the covering in both indoor and outdoor applications. Plus, it can be easily removed without any special tools and equipment.

### // Easy to clean

A smooth and attractive silver colour that is easy to clean and maintain.

### // Prefabricated accessories available

Shorten installation time further by using our preformed shapes - single piece, prefabricated elbows and tees.

### // Fire protection

Excellent fire performance. Meets the performance classification of B1 according to the GB 8624 test standard. Plus, has a Class 1 fire rating under BS 476 Part 7.

### // Create a safer environment

Passes the EU directive on the limitation of hazardous ingredients (RoHS) and GREENGUARD® Gold certified.

## RESILIENT, RUST-FREE PROTECTIVE COVERING



- 1 Lenzing Group's fibre plant in Austria
- 2 Hongqiao energy centre in China
- 3 Yellow River Xiao Lang Di hydropower station in China

## INSTALLATION ADVICE

- Arma-Chek Silver 350 rolls can be used to protect water pipes, air ducts and tanks. Pipe fittings such as elbows and tees can be covered with prefabricated parts.
- The use of a covering will influence the thermal conductivity of the installed system. This needs to be considered when identifying the right thermal insulation thickness to prevent condensation. (Please consult our technical department for more details.)
- Ensure that the insulation layer and Arma-Chek Silver 350 are clean and dry during application. Installation should be done in an environment above 5°C.
- All joins and seams should have a 30 mm to 50 mm overlap.
- The overlapping parts should be fixed with plastic rivets at a distance of 200 mm apart along the length. All seams must be sealed with Arma-Chek Silver tape. Once the tape is installed, use a spatula to exert pressure along the tape, to ensure a tight seal.
- Keep the number of joins to a minimum and stagger them.
- For areas that cannot be fixed with rivets, ArmaFlex 520 adhesive should be used to join the overlapping surfaces. The seams must then be sealed with Arma-Chek Silver tape. Once installed, use a spatula to exert pressure along the tape to ensure a tight seal.
- It is recommended that the longitudinal seam of the material is installed at the bottom of the pipeline, away from direct sunlight when used in outdoor applications.
- Install Arma-Chek Silver 350 prefabricated parts on pipe fittings such as elbows and tees. For pipes with custom shapes and sizes, the installation guide of conventional sheet metal can be referenced.



Rivet tool



Plastic rivets

## TECHNICAL DATA - ARMA-CHEK SILVER 350

Brief description	Arma-Chek Silver is a protective covering developed for ArmaFlex and other insulation materials against mechanical damage and outdoor weather resistance.
Material type	Multilayer laminate of aluminium, coated with a special UV protection film and a PVC backing.
Product colour range	Silver
Applications	Protection of insulated water pipes, ducts and vessels.
Installation	Please refer to Arma-Chek Silver Application Manual. Prefabricated Arma-Chek Silver 350 tees and elbows are available and recommended. For pipe fittings with custom shapes and sizes, please refer to the installation guide of traditional sheet metal for cutting and installation.

Property	Value / Assessment	Standard / Test method
<b>Temperature range</b>		
Service temperature <sup>1</sup>	Min. °C	Max. °C
	-25	65
	Remarks	Contact Armacell for applications beyond recommended service temperature range.
<b>Fire Performance and Approvals</b>		
Surface spread of flame	Class 1	BS 476 Part 7
Fire propagation for products	Index of performance (I) ≤ 12, Sub index (i <sub>1</sub> ) ≤ 6. Class 0 rating for achieving the above and Class 1 per BS 476 Part 7	BS 476 Part 6
<b>Physical attributes</b>		
Thickness	350 µm	
Density	500±10g/m <sup>2</sup>	ISO 2286-2
<b>Mechanical properties</b>		
Tensile strength	≥ 50 MPa	EN ISO 527-3
Elongation at break	35 %	
<b>Weather and UV resistance</b>		
Weather resistance <sup>2</sup>	Excellent	
<b>Health and environment</b>		
Health aspects	Free of fibre and formaldehyde. Low Volatile Organic Compounds (VOC), GREENGUARD® Gold for even lower VOC and total chemical emissions.	UL 2818
<b>Other technical features</b>		
Emissivity	0.62	
Storage	Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35 °C).	

<sup>1</sup>When there are fluctuations in temperature, the surface may wrinkle slightly, as elastomeric products expand and contract in these circumstances. However, these superficial changes do not have any impact on the performance of the material. The wrinkles usually disappear as soon as the plant is heated to its original operating temperature.

<sup>2</sup>In outdoor applications the colour may fade. This does not have any impact on the functionality of the covering or the insulation material.

Roll

Item	Content [metric]	Content [quantity]
ACH-SI25-350	30 m <sup>2</sup>	1 roll
ACH-SICE25-350	30 m <sup>2</sup>	1 roll

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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. This document does not constitute nor is part of a legal offer to sell or to contract.

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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)

  
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