



FLEXIBLE 2-IN-1 SOLUTION

# NH/ArmaFlex Smart C

- // Protected insulation
- // High mechanical resistance
- // Advanced fire behavior

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



 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>



## TECHNICAL DATA - NH/ARMAFLEX SMART C

Brief description	NH/ArmaFlex Smart C is the new generation halogen free, flexible closed-cell insulation material with an additional pre-covering for use in any building and construction types.
Material type	Highly flexible, closed-cell elastomeric foam material based on synthetic rubber. Factory-made flexible elastomeric foam (FEF), according to EN 14304. Covering: 25 µm Alufoil glossy (black), 204 g/m <sup>2</sup> high performance glass fabric, 18 µm Alufoil glossy.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.
Product colour range	FEF: black / anthracite Covering: black
Special features	Without halogens (chloride, bromide) according to DIN/VDE 0472, part 815. Fulfils DIN 1988-200.
Applications	Insulation / protection for rectangular air ducts of air-conditioning / refrigeration and ventilation to prevent condensation and save energy.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 750. During application with ArmaFlex 750 Adhesive and ArmaFlex Cleaner the surface black colour may blurred, but this have no impact on the product performance.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a> .

Property	Value / Assessment	Standard / Test method
<b>Temperature range</b>		
Service temperature	Min. °C <sup>1</sup>	Max. °C
	-50	110
	Remarks	+85 °C if sheet is glued to the object with its whole surface.
<b>Thermal conductivity</b>		
Declared thermal conductivity	θm	+/- 0 °C
	λd ≤ [W/(m·K)]	0.040
	Formula	[40 + 0,1 · θm + 0,0009 · θm <sup>2</sup> ]/1000
<b>Fire Performance and Approvals</b>		
Reaction to fire	sheets, tape C-s2, d0	EN 13501-1, EN 13823, EN ISO 11925-2
<b>Fire performance</b>		
Practical fire behaviour	self-extinguishing, does not drip, does not spread flames	
<b>Resistance to water vapour</b>		
Water vapour diffusion resistance factor	μ ≥ 2000	EN 12086, EN 13469
<b>Physical attributes</b>		
Dimensions and tolerances	In accordance with EN 14304, table 1	EN 822, EN 823, EN 13467
<b>Weather and UV resistance</b>		
UV resistance <sup>2</sup>	High. (see Technical Bulletin no. 142)	ISO 4892
<b>Health and environment</b>		
Green building assessment	Meets the sustainable construction requirements for DGNB QS4 Platin and BNB QN 2-5.	
Additional features	SCCP, MCCP, LCCP-free	
<b>Other technical features</b>		
Shelf life	Self-adhesive tapes, self-adhesive sheets: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

<sup>1</sup>For temperatures below -50 °C please contact our Customer Service Centre to request for the corresponding technical information.

<sup>2</sup>If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with ArmaFinish Paint, or a covering such as Arma-Chek within 3 days of installation.

**Sheet – precovered**

Item	Insulation thickness [mm]	Width [mm]	Length [m]	Content [metric]
NHSC-13-99	13	1,000	2	24 m <sup>2</sup>
NHSC-19-99	19	1,000	2	16 m <sup>2</sup>
NHSC-25-99	25	1,000	2	12 m <sup>2</sup>
NHSC-32-99	32	1,000	2	10 m <sup>2</sup>

**Sheet – precovered and self-adhesive**

Item	Insulation thickness [mm]	Width [mm]	Length [m]	Content [metric]
NHSC-13-99/A	13	1,000	2	24 m <sup>2</sup>
NHSC-19-99/A	19	1,000	2	16 m <sup>2</sup>
NHSC-25-99/A	25	1,000	2	12 m <sup>2</sup>
NHSC-32-99/A	32	1,000	2	10 m <sup>2</sup>

**Tape – self-adhesive**

Item	Thickness [mm]	Width [mm]	Length [m]	Content [quantity]
NHSC-TAPE-70	0.24	70	25	6 piece

**Accessories**

Item	Description	Content [quantity]
ADH750/0,5	ArmaFlex 750 Adhesive, 0.5 Litre	12 tin

# OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



## **SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7**

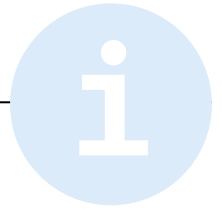
At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

## **DEDICATED LOCAL CONTACTS**

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

## **DIGITAL INFORMATION FLOWS**

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



## OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

## WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES\*

### OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

### LABELLING

- Extra label for transport instructions

### EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service\* by which pallets can be handed at Armacell collection points.

\* Please contact your local Customer Service Centre to see which of these services apply to your country.

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.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our Data Protection Policy.

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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)