

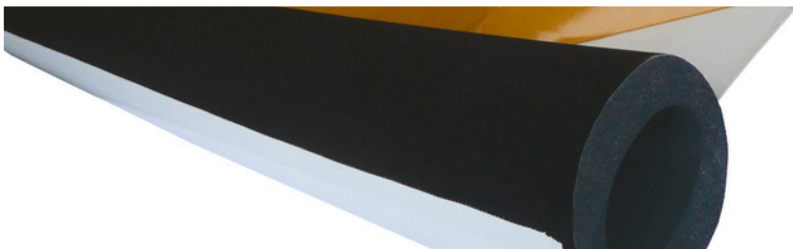
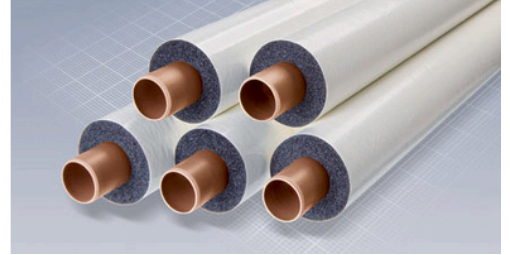


INSTALL IT. TRUST IT.

ArmaFlex Tuffcoat

The Perfect ArmaFlex pre-coated solution for protection against mechanical impact

- // Protection against mechanical impact
- // Wash-down waterproof and easy to clean
- // UV Resistant for external use
- // No additional painting or covering required
- // Can be used on underground pipework, including mains cold water and ground source heat pumps
- // Microban® antimicrobial protection



TECHNICAL DATA - ARMAFLEX TUFFCOAT

Brief description	AF/ArmaFlex Evo insulation with a polymeric covering for protection against mechanical impact and UV resistance. Suitable for external applications.
Product colour range	Black White
Applications	Insulation for hot and cold water services, chilled water lines, heating systems, air conditioning and refrigeration pipework to provide condensation control, energy conservation and frost protection. Easy to wipe clean and wash down - suitable for food manufacturing, hospitals and schools. Ideal for outdoor use since covering provides additional protection against UV damage and bird attack. Can be used underground - including mains cold water and ground source heat pump pipes.
Installation	Compatible adhesives for a long-term performing system include ArmaFlex 520, ArmaFlex HT 625 or ArmaFlex RS850. Contact Armacell Technical Services for installation advice before application. For further information please contact our Technical Services. Longitudinal and end seams must be sealed with ArmaFlex 520 adhesive. Please refer to the Armacell application manual
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at www.armacell.com/DoP .

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature	Min. °C	Max. °C ¹
	-50	110
Thermal conductivity		
Declared thermal conductivity	Øm	0°C
	$\lambda d \leq [W/(m \cdot K)]$	0.033
	Range	Tubes 6-19mm and Sheets 13-25mm
	Formula	$\lambda d = [33 + 0,1 \cdot \vartheta m + 0,0008 \cdot \vartheta m^2]/1000$
Declared thermal conductivity	Øm	0°C
	$\lambda d \leq [W/(m \cdot K)]$	0.036
	Range	Tubes 25mm
	Formula	$\lambda d = [36 + 0,1 \cdot \vartheta m + 0,0008 \cdot \vartheta m^2]/1000$
Fire Performance and Approvals		
Fire propagation for products	Tuffcoat covering roll: Total Index Performance (I) ≤ 12 Sub Index (i1) ≤ 6 Class 0	BS 476 Part 6
Reaction to fire	Pre-covered Tubes: E(L) Pre-covered Sheet: E	EN 13501-1, EN ISO 11925-2
Resistance to water vapour		
Water vapour diffusion resistance factor	≥ 15,000	EN 12086, EN 13469
Physical attributes		
Dimensions and tolerances	In accordance with EN 14304, table 1	EN 822, EN 823, EN 13467
Weather and UV resistance		
UV resistance	Excellent	
Outdoor use	Suitable for outdoor applications	
Health and environment		
Antimicrobial behaviour	In-built Microban® antimicrobial protection	
Environmental aspects	ODP zero GWP zero	

¹+85 °C, for products with a self-adhesive layer.

Tube – precovered. Black. Length: 1.0m

13 mm					19 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]	Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
10	CO-13X010/BK-1M	11	13	94 m	12	CO-19X012/BK-1M	13	15	46 m
12	CO-13X012/BK-1M	13	15	81 m	15	CO-19X015/BK-1M	16	18	39 m
15	CO-13X015/BK-1M	16	18	68 m	20	CO-19X020/BK-1M	21	23	35 m
20	CO-13X020/BK-1M	21	23	56 m	22	CO-19X022/BK-1M	23	25	32 m
22	CO-13X022/BK-1M	23	25	52 m	28	CO-19X028/BK-1M	29	31.5	25 m
28	CO-13X028/BK-1M	29	31.5	39 m	35	CO-19X035/BK-1M	36	38.5	20 m
35	CO-13X035/BK-1M	36	38.5	30 m	42	CO-19X042/BK-1M	43	46	16 m
42	CO-13X042/BK-1M	43	46	28 m	48	CO-19X048/BK-1M	49	51.5	15 m
48	CO-13X048/BK-1M	49	51.5	20 m	54	CO-19X054/BK-1M	55	58	12 m
54	CO-13X054/BK-1M	55	58	21 m	60	CO-19X060/BK-1M	61	64	12 m
60	CO-13X060/BK-1M	61	64	18 m	67	CO-19X067/BK-1M	68	71	10 m
67	CO-13X067/BK-1M	68	71	17 m	76	CO-19X076/BK-1M	77	80	9 m
-	-	-	-	-	80	CO-19X080/BK-1M	81	84	8 m
-	-	-	-	-	89	CO-19X089/BK-1M	90	93	8 m
-	-	-	-	-	93	CO-19X093/BK-1M	94	97	8 m
-	-	-	-	-	108	CO-19X108/BK-1M	110	114	6 m
-	-	-	-	-	114	CO-19X114/BK-1M	116	120	6 m

Other information

Thickness tolerance 13 - 19mm ± 1.5mm
25mm ± 2.5mm

Length tolerance ± 1.5mm

Tube – precovered. Black. Length: 1.0m

25 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
12	CO-25X012/BK-1M	13	15	25 m
15	CO-25X015/BK-1M	16	18	24 m
20	CO-25X020/BK-1M	21	23	20 m
22	CO-25X022/BK-1M	23	25	20 m
28	CO-25X028/BK-1M	29	31.5	16 m
35	CO-25X035/BK-1M	36	38.5	12 m
42	CO-25X042/BK-1M	43	46	12 m

Tube – precovered. Black. Length: 1.0m

25 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
48	CO-25X048/BK-1M	49	51.5	11 m
54	CO-25X054/BK-1M	55	58	9 m
60	CO-25X060/BK-1M	61	64	9 m
67	CO-25X067/BK-1M	68	71	8 m
76	CO-25X076/BK-1M	77	80	7 m
80	CO-25X080/BK-1M	81	84	6 m
89	CO-25X089/BK-1M	90	93	6 m
93	CO-25X093/BK-1M	94	97	6 m
108	CO-25X108/BK-1M	110	114	4 m
114	CO-25X114/BK-1M	116	160	4 m

Other information

Thickness tolerance 13 - 19mm ± 1.5mm
25mm ± 2.5mm

Length tolerance ± 1.5mm

Tube – precovered. White. Length: 1.0m

13 mm					19 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]	Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
10	CO-13X010/WH-1M	11	13	94 m	12	CO-19X012/WH-1M	13	15	46 m
12	CO-13X012/WH-1M	13	15	81 m	15	CO-19X015/WH-1M	16	18	39 m
15	CO-13X015/WH-1M	16	18	68 m	20	CO-19X020/WH-1M	21	23	35 m
20	CO-13X020/WH-1M	21	23	56 m	22	CO-19X022/WH-1M	23	25	32 m
22	CO-13X022/WH-1M	23	25	52 m	28	CO-19X028/WH-1M	29	31.5	25 m
28	CO-13X028/WH-1M	29	31.5	39 m	35	CO-19X035/WH-1M	36	38.5	20 m
35	CO-13X035/WH-1M	36	38.5	30 m	42	CO-19X042/WH-1M	43	46	16 m
42	CO-13X042/WH-1M	43	46	28 m	48	CO-19X048/WH-1M	49	51.5	15 m
48	CO-13X048/WH-1M	49	51.5	20 m	54	CO-19X054/WH-1M	55	58	12 m
54	CO-13X054/WH-1M	55	58	21 m	60	CO-19X060/WH-1M	61	64	12 m
60	CO-13X060/WH-1M	61	64	18 m	67	CO-19X067/WH-1M	68	71	10 m
67	CO-13X067/WH-1M	68	71	17 m	76	CO-19X076/WH-1M	77	80	9 m
-	-	-	-	-	80	CO-19X080/WH-1M	81	84	8 m
-	-	-	-	-	89	CO-19X089/WH-1M	90	93	8 m
-	-	-	-	-	93	CO-19X093/WH-1M	94	97	8 m

Tube – precovered. White. Length: 1.0m

13 mm					19 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]	Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
-	-	-	-	-	108	CO-19X108/ WH-1M	110	114	6 m
-	-	-	-	-	114	CO-19X114/ WH-1M	116	120	6 m
Other information									
Thickness tolerance			13 - 19mm ± 1.5mm 25mm ± 2.5mm						
Length tolerance			± 1.5mm						

Tube – precovered. White. Length: 1.0m

25 mm				
Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Content [metric]
12	CO-25X012/WH-1M	13	15	25 m
15	CO-25X015/WH-1M	16	18	24 m
20	CO-25X020/WH-1M	21	23	20 m
22	CO-25X022/WH-1M	23	25	20 m
28	CO-25X028/WH-1M	29	31.5	16 m
35	CO-25X035/WH-1M	36	38.5	12 m
42	CO-25X042/WH-1M	43	46	12 m
48	CO-25X048/WH-1M	49	51.5	11 m
54	CO-25X054/WH-1M	55	58	9 m
60	CO-25X060/WH-1M	61	64	9 m
67	CO-25X067/WH-1M	68	71	8 m
76	CO-25X076/WH-1M	77	80	7 m
80	CO-25X080/WH-1M	81	84	6 m
89	CO-25X089/WH-1M	90	93	6 m
93	CO-25X093/WH-1M	94	97	6 m
108	CO-25X108/WH-1M	110	114	4 m
114	CO-25X114/WH-1M	116	120	4 m
Other information				
Thickness tolerance		13 - 19mm ± 1.5mm 25mm ± 2.5mm		
Length tolerance		± 1.5mm		

Sheet – precovered. Black. Length: 2.0m, Width: 0.5m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/BK	13	0.5	2	9 m ²
CO-19MM/BK	19	0.5	2	7 m ²
CO-25MM/BK	25	0.5	2	5 m ²
Other information				
Thickness tolerance		13-19mm: ± 1.5mm 25mm: ± 2mm		
Length tolerance		± 1.5% - 5%		

Sheet – precovered. White. Length: 2.0m, Width: 0.5m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/WH	13	0.5	2	9 m ²
CO-19MM/WH	19	0.5	2	7 m ²
CO-25MM/WH	25	0.5	2	5 m ²
Other information				
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Sheet – precovered and self-adhesive. Black. Length: 2.0m, Width 0.5m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/A-BK	13	0.5	2	9 m ²
CO-19MM/A-BK	19	0.5	2	7 m ²
CO-25MM/A-BK	25	0.5	2	5 m ²
Other information				
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Sheet – precovered and self-adhesive. White. Length: 2.0m, Width 0.5m

Item	Content [metric]
CO-13MM/A-WH	9 m ²
CO-19MM/A-WH	7 m ²
CO-25MM/A-WH	5 m ²
Other information	
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm
Length tolerance	± 1.5% - 5%

Roll – standard precovered. Black. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/E-BK	13	1	8	8 m ²
CO-19MM/E-BK	19	1	6	6 m ²
CO-25MM/E-BK	25	1	4	4 m ²
Other information				
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Roll – standard precovered. White. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/E-WH	13	1	8	8 m ²
CO-19MM/E-WH	19	1	6	6 m ²
CO-25MM/E-WH	25	1	4	4 m ²
Other information				

Roll – standard precovered. White. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Roll – standard precovered self-adhesive. Black. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/EA-BK	13	1	8	8 m ²
CO-19MM/EA-BK	19	1	6	6 m ²
CO-25MM/EA-BK	25	1	4	4 m ²
Other information				
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Roll – standard precovered self-adhesive. White. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/EA-WH	13	1	8	8 m ²
CO-19MM/EA-WH	19	1	6	6 m ²
CO-25MM/EA-WH	25	1	4	4 m ²
Other information				
Thickness tolerance	13-19mm: ± 1.5mm 25mm: ± 2mm			
Length tolerance	± 1.5% - 5%			

Roll - standard. Black. Covering roll

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
TCN-BK-1M/100M	0.3	1	100	100 m ²

Roll - standard. White. Covering roll

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
TCN-WH-1M/100M	0.3	1	100	100 m ²

Tape – PVC. Black

Item	Width [mm]	Length [m]	Content [quantity]
TUFF-TP-12,5/BK	12.5	50	16 EA
TUFF-TP-25/BK	25	50	8 EA
TUFF-TP-50/BK	50	50	4 EA

Tape – PVC. White

Item	Width [mm]	Length [m]	Content [quantity]
TUFF-TP-12,5/WH	12.5	50	16 EA
TUFF-TP-25/WH	25	50	8 EA
TUFF-TP-50/WH	50	50	4 EA

Adhesives and Cleaners

Item	Description	Content [quantity]
ADH520/0,25E	0.25 litre tins of ArmaFlex 520 adhesive with built-in brush, packed in a carton.	24 tin
ADH520/0,5E	0.5 litre tins of ArmaFlex 520 adhesive packed in a carton.	12 tin
ADH520/1,0E	1.0 litre tins of ArmaFlex 520 adhesive packed in a carton.	12 tin
ADH520/2,5E	2.5 litre tins of ArmaFlex 520 adhesive packed in a carton.	8 tin
SF-CLEANER/1,0	Solvent-free cleaner for use with ArmaFlex	6 tin

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ABOUT ARMACELL

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:
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MAKING A DIFFERENCE AROUND THE WORLD