

INSTALL IT. TRUST IT.

ArmaFlex Tuffcoat

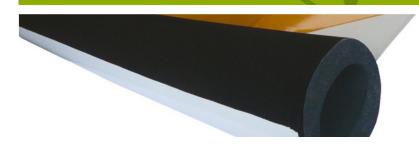
The Perfect ArmaFlex pre-coated solution for protection against mechanical impact

- // 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 applications.	covering for protection against mechanical impact and U	V resistance. Suitable for external			
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	Technical Services for installation advice before	ming system include ArmaFlex 520, ArmaFlex HT 625 or A ore application. For further information please contact ou x 520 adhesive. Please refer to the Armacell application n	r Technical Services. Longitudinal			
Declaration of performance	Declaration of Performance in accordance wi	th 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. °C¹	EN 14706, EN 14707, EN 14304			
	-50	110				
Thermal conductivity						
Declared thermal conductivity	θm	0°C	EN ISO 8497, EN 12667,			
	λd ≼ [W/(m⋅K)]	0.033	EN ISO 13787			
	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	θm	0°C	EN ISO 8497, EN 12667,			
	λd ≼ [W/(m⋅K)]	0.036	——— EN ISO 13787			
	Range	Tubes 25mm				
	Formula	$\lambda d = [36 + 0.1 \cdot \vartheta m + 0.0008 \cdot \vartheta m^2]/1000$				
Fire Performance and Approval	s					
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-adh	esive laver.					

^{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	C0-13X010/ 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 informat	ion								
Thickness tole	ance		13 - 19mm ± 1.5 25mm ± 2.5mm						
Length toleran	ce		± 1.5mm						

Tube – precovered. Black. Length: 1.0m

25	mm

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

Tube - precovered. Black. Length: 1.0m

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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	C0-19X108/ WH-1M	110	114	6 m
-	-	-	-	-	114	CO-19X114/ WH-1M	116	120	6 m
Other informat	ion								
Thickness tolerance 13 - 19mm ± 1.5mm 25mm ± 2.5mm									
Length toleran	ce		± 1.5mm						

Tube - precovered. White. Length: 1.0m

2E	-	-	
ZO	m	m	

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	C0-25X114/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 m²
CO-19MM/BK	19	0.5	2	7 m²
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 m²
CO-19MM/WH	19	0.5	2	7 m²
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 m²
CO-19MM/A-BK	19	0.5	2	7 m²
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 m²
CO-19MM/A-WH	7 m²
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

	Width (m)	Length [m]	Content [metric]
13	1	8	8 m²
19	1	6	6 m²
25	1	4	4 m ²
13-19mm: ± 1.5mm 25mm: ± 2mm			
± 1.5% - 5%			
	19 25 13-19mm: ± 1.5mm 25mm: ± 2mm	19 1 25 1 13-19mm: ± 1.5mm 25mm: ± 2mm	19 1 6 25 1 4 13-19mm: ± 1.5mm 25mm: ± 2mm

Roll – standard precovered. White. Width: 1.0m

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
CO-13MM/E-WH	13	1	8	8 m²
CO-19MM/E-WH	19	1	6	6 m²
CO-25MM/E-WH	25	1	4	4 m²
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 m²
CO-19MM/EA-BK	19	1	6	6 m ²
CO-25MM/EA-BK	25	1	4	4 m²
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 m²
CO-19MM/EA-WH	19	1	6	6 m²
CO-25MM/EA-WH	25	1	4	4 m²
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 m²

Roll - standard. White. Covering roll

TCN-WH-1M/100M 0.3	1	100	100 m²

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.

