

Armaflex®
TuffCoat

THE PERFECT ARMAFLEX PRECOATED
SOLUTION FOR PROTECTION AGAINST
MECHANICAL IMPACT



- Protection against mechanical impact
- Can be used on underground pipework, including mains cold water and ground source heat pump pipes
- Wash-down waterproof and easy to clean
- Built-in vapour barrier prevents condensation

- No additional painting required
- UV resistant
- Microban® antimicrobial protection

Technical Data - Armaflex Tuffcoat

Brief description	AF/Armaflex Class O with polymeric covering for protection against mechanical impact and UV resistance.
Material type	Elastomeric foam based on synthetic rubber with polymeric coating. Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	Black or white covering
Applications	Insulation for hot and cold water services, chilled water lines, heating systems, air conditioning and refrigerated 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.
Special Features	UV resistance for outside applications, no additional coating is necessary.
Safety and Environment	ODP zero GWP zero

Property	Value/Assessment	Test ^{*1}	Special Remark			
Temperature Range						
Temperature Range ¹	max. service temperature	+110 °C	EU 5699			
	min. service temperature	-50 °C				
Thermal Conductivity						
Thermal Conductivity	ϑ_m +/-0	°C	$\lambda =$	EU 5699	Tested acc. to EN ISO 8497 + EN 12667	
	Tubes 6-19mm	$\lambda \leq 0,033$	W/(m · K)			$[33 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	Sheets 13 - 25mm	$\lambda \leq 0,033$	W/(m · K)			$[33 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	Tubes 25mm	$\lambda \leq 0,036$	W/(m · K)			$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
Water vapour diffusion resistance						
Water vapour diffusion resistance	μ	\geq	15.000	EU 5699	Tested acc. to EN 12086 EN 13469	
Fire performance						
Reaction to fire ²	Euroclass (pre-covered tubes and sheets) Fire Performance for Tuffcoat covering roll	E_L / E Total Index Performance (I) ≤ 12 Sub Index (i_1) ≤ 6 Class 0	GB 5730	Euroclass classified acc. to EN 13501-1 Fire performance acc. to BS 476 Part 6: 1989		
Dimensions and tolerances	In accordance with EN 14304, table 1					
Resistance to mechanical impact	Very Good					
Chemical behaviour	Consult Product Test List					
UV resistance	Excellent					
Antimicrobial behaviour	In-built Microban® antimicrobial protection					

1. For temperatures above +110 °C, please consult our Customer Service Center for further information.

2. For further information, please contact our customer service.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Armaflex Tuffcoat tubes

Pipe max. Outside-Ø [mm]	Inner Ø min/max mm	13,0 mm [white] insulation thickness			13,0 mm [black] insulation thickness		
		Code	m/carton	€/m	Code	m/carton	€/m
10	11,0 - 13,0	CO-13X010/WH-1M ●	94	xxx	CO-13X010/BK-1M ●	94	xxx
12	13,0 - 15,0	CO-13X012/WH-1M ●	81	xxx	CO-13X012/BK-1M	81	xxx
15	16,0 - 18,0	CO-13X015/WH-1M ●	68	xxx	CO-13X015/BK-1M	68	xxx
20	21,0 - 23,0	CO-13X020/WH-1M ●	56	xxx	CO-13X020/BK-1M	56	xxx
22	23,0 - 25,0	CO-13X022/WH-1M ●	52	xxx	CO-13X022/BK-1M	52	xxx
28	29,0 - 31,5	CO-13X028/WH-1M ●	39	xxx	CO-13X028/BK-1M	39	xxx
35	36,0 - 38,5	CO-13X035/WH-1M ●	30	xxx	CO-13X035/BK-1M	30	xxx
42	43,0 - 46,0	CO-13X042/WH-1M ●	28	xxx	CO-13X042/BK-1M	28	xxx
48	49,0 - 51,5	CO-13X048/WH-1M ●	20	xxx	CO-13X048/BK-1M ●	20	xxx
54	55,0 - 58,0	CO-13X054/WH-1M ●	21	xxx	CO-13X054/BK-1M	21	xxx
60	61,0 - 64,0	CO-13X060/WH-1M ●	18	xxx	CO-13X060/BK-1M	18	xxx
67	68,0 - 71,0	CO-13X067/WH-1M ●	17	xxx	CO-13X067/BK-1M	17	xxx

Pipe max. Outside-Ø [mm]	Inner Ø min/max mm	19,0 mm [white] insulation thickness			19,0 mm [black] insulation thickness		
		Code	m/carton	€/m	Code	m/carton	€/m
12	13,0 - 15,0	CO-19X012/WH-1M ●	46	xxx	CO-19X012/BK-1M ●	46	xxx
15	16,0 - 18,0	CO-19X015/WH-1M ●	39	xxx	CO-19X015/BK-1M ●	39	xxx
20	21,0 - 23,0	CO-19X020/WH-1M ●	35	xxx	CO-19X020/BK-1M ●	35	xxx
22	23,0 - 25,0	CO-19X022/WH-1M ●	32	xxx	CO-19X022/BK-1M ●	32	xxx
28	29,0 - 31,5	CO-19X028/WH-1M ●	25	xxx	CO-19X028/BK-1M ●	25	xxx
35	36,0 - 38,5	CO-19X035/WH-1M ●	20	xxx	CO-19X035/BK-1M ●	20	xxx
42	43,0 - 46,0	CO-19X042/WH-1M ●	16	xxx	CO-19X042/BK-1M ●	16	xxx
48	49,0 - 51,5	CO-19X048/WH-1M ●	15	xxx	CO-19X048/BK-1M ●	15	xxx
54	55,0 - 58,0	CO-19X054/WH-1M ●	12	xxx	CO-19X054/BK-1M ●	12	xxx
60	61,0 - 64,0	CO-19X060/WH-1M ●	12	xxx	CO-19X060/BK-1M ●	12	xxx
67	68,0 - 71,0	CO-19X067/WH-1M ●	10	xxx	CO-19X067/BK-1M ●	10	xxx
76	77,0 - 80,0	CO-19X076/WH-1M	9	xxx	CO-19X076/BK-1M ●	9	xxx
80	81,0 - 84,0	CO-19X080/WH-1M ●	8	xxx	CO-19X080/BK-1M ●	8	xxx
89	90,0 - 93,0	CO-19X089/WH-1M ●	8	xxx	CO-19X089/BK-1M ●	8	xxx
93	94,0 - 97,0	CO-19X093/WH-1M ●	8	xxx	CO-19X093/BK-1M	8	xxx
108	110,0 - 114,0	CO-19X108/WH-1M ●	6	xxx	CO-19X108/BK-1M ●	6	xxx
114	116,0 - 120,0	CO-19X114/WH-1M ●	6	xxx	CO-19X114/BK-1M ●	6	xxx

Pipe max. Outside-Ø [mm]	Inner Ø min/max mm	25,0 mm [white] insulation thickness			25,0 mm [black] insulation thickness		
		Code	m/carton	€/m	Code	m/carton	€/m
12	13,0 - 15,0	CO-25X012/WH-1M ●	25	xxx	CO-25X012/BK-1M ●	25	xxx
15	16,0 - 18,0	CO-25X015/WH-1M ●	24	xxx	CO-25X015/BK-1M ●	24	xxx
20	21,0 - 23,0	CO-25X020/WH-1M	20	xxx	CO-25X020/BK-1M	20	xxx
22	23,0 - 25,0	CO-25X022/WH-1M ●	20	xxx	CO-25X022/BK-1M ●	20	xxx
28	29,0 - 31,5	CO-25X028/WH-1M ●	16	xxx	CO-25X028/BK-1M ●	16	xxx
35	36,0 - 38,5	CO-25X035/WH-1M ●	12	xxx	CO-25X035/BK-1M ●	12	xxx
42	43,0 - 46,0	CO-25X042/WH-1M ●	12	xxx	CO-25X042/BK-1M ●	12	xxx
48	49,0 - 51,5	CO-25X048/WH-1M	11	xxx	CO-25X048/BK-1M ●	11	xxx
54	55,0 - 58,0	CO-25X054/WH-1M ●	9	xxx	CO-25X054/BK-1M ●	9	xxx
60	61,0 - 64,0	CO-25X060/WH-1M ●	9	xxx	CO-25X060/BK-1M ●	9	xxx
67	68,0 - 71,0	CO-25X067/WH-1M ●	8	xxx	CO-25X067/BK-1M ●	8	xxx
76	77,0 - 80,0	CO-25X076/WH-1M ●	7	xxx	CO-25X076/BK-1M ●	7	xxx
80	81,0 - 84,0	CO-25X080/WH-1M	6	xxx	CO-25X080/BK-1M ●	6	xxx
89	90,0 - 93,0	CO-25X089/WH-1M ●	6	xxx	CO-25X089/BK-1M	6	xxx
93	94,0 - 97,0	CO-25X093/WH-1M	6	xxx	CO-25X093/BK-1M	6	xxx
108	110,0 - 114,0	CO-25X108/WH-1M ●	4	xxx	CO-25X108/BK-1M ●	4	xxx
114	116,0 - 120,0	CO-25X114/WH-1M	4	xxx	CO-25X114/BK-1M	4	xxx

Length tolerance for tubes ± 1,5 %

Thickness tolerance 9 - 13 mm ± 1,5 mm
>19 mm ± 2,5 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat sheets pre-covered

Black						White					
Code	Insulation thickness [mm]	Width [m]	Pieces/ carton	m ² /carton	€/m ²	Code	Insulation thickness [mm]	Width [m]	Pieces/ carton	m ² /carton	€/m ²
CO-13MM/BK ●	13,0	0.5	9	9	xxx	CO-13MM/WH ●	13,0	0.5	9	9	xxx
CO-19MM/BK ●	19,0	0.5	7	7	xxx	CO-19MM/WH ●	19,0	0.5	7	7	xxx
CO-25MM/BK ●	25,0	0.5	5	5	xxx	CO-25MM/WH ●	25,0	0.5	5	5	xxx

Length tolerance for sheets ± 1,5 %

Thickness tolerance for sheets 13 - 19 mm ± 1,5 mm
>19 mm ± 2,0 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat sheets self-adhesive pre-covered

Black						White					
Code	Insulation thickness [mm]	Width [m]	Pieces/ carton	m ² /carton	€/m ²	Code	Insulation thickness [mm]	Width [m]	Pieces/ carton	m ² /carton	€/m ²
CO-13MM/A-BK	13,0	0.5	9	9	xxx	CO-13MM/A-WH	13,0	0.5	9	9	xxx
CO-19MM/A-BK	19,0	0.5	7	7	xxx	CO-19MM/A-WH	19,0	0.5	7	7	xxx
CO-25MM/A-BK ●	25,0	0.5	5	5	xxx	CO-25MM/A-WH	25,0	0.5	5	5	xxx

Length tolerance for sheets ± 1,5 %

Thickness tolerance for sheets 13 - 19 mm ± 1,5 mm
>19 mm ± 2,0 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat sheets endless pre-covered

Black					White				
Code	Insulation thickness [mm]	Roll length [m]	m ² /carton	€/m ²	Code	Insulation thickness [mm]	Roll length [m]	m ² /carton	€/m ²
CO-13MM/E-BK ●	13,0	8	8	xxx	CO-13MM/E-WH ●	13,0	8	8	xxx
CO-19MM/E-BK ●	19,0	6	6	xxx	CO-19MM/E-WH	19,0	6	6	xxx
CO-25MM/E-BK ●	25,0	4	4	xxx	CO-25MM/E-WH ●	25,0	4	4	xxx

Length tolerance for sheets ± 5 % - 1.5%

Thickness tolerance for sheets 13 - 19 mm ± 1,5 mm
>19 mm ± 2,0 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat sheets endless self-adhesive pre-covered

Black					White				
Code	Insulation thickness [mm]	Roll length [m]	m ² /carton	€/m ²	Code	Insulation thickness [mm]	Roll length [m]	m ² /carton	€/m ²
CO-13MM/EA-BK	13,0	8	8	xxx	CO-13MM/EA-WH	13,0	8	8	xxx
CO-19MM/EA-BK	19,0	6	6	xxx	CO-19MM/EA-WH ●	19,0	6	6	xxx
CO-25MM/EA-BK	25,0	4	4	xxx	CO-25MM/EA-WH	25,0	4	4	xxx

Length tolerance for sheets ± 5 % - 1.5%

Thickness tolerance for sheets 13 - 19 mm ± 1,5 mm
>19 mm ± 2,0 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat covering endless



Code	Thickness [mm]	Width [mm]	Length [m]	m ² /roll	€/roll
TC-BK-1M/100M	1	1.000,0	100	100	xxx
TC-WH-1M/100M	1	1.000,0	100	100	xxx

Armaflex Tuffcoat tapes self-adhesive



Code	Colour	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton	€/roll
TUFF-TP-12,5/BK •	Black	12,5	50	3	16	xxx
TUFF-TP-12,5/WH •	White	12,5	50	3	16	xxx
TUFF-TP-25/BK •	Black	25,0	50	3	8	xxx
TUFF-TP-25/WH •	White	25,0	50	3	8	xxx
TUFF-TP-50/BK	Black	50,0	50	3	4	xxx
TUFF-TP-50/WH •	White	50,0	50	3	4	xxx

• Item not in stock. Delivery on request. [MTO]

Armaflex Tuffcoat accessories



Code	Article description	Pieces/carton	€/pc
ACH-MASTICD	Mastic black. Sealing compound for installing Arma-Chek outdoors, 290 ml	12	xxx

