

MADE TO WITHSTAND 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<sup>®</sup> Antimicrobial Protection





#### Technical Data - Armaflex Tuffcoat

Brief description	AF/Armafle	ex Cl	lass O v	with polyme	ric covering for	protection a	against mechanic	al impact				
Material type	Foamed nit	trile	rubber	with polyme	ric covering							
Colour	Black or whether the second se	hite	coverin	g (other cold	ours available o	n request)						
Product Range	and covere	roduct Modification 2014: Armaftex Tuffcoat tubes are now supplied in 1m lengths with a section of the Tuffcoat film un-adhered to the Armaftex tube ad covered with a self-adhesive backing for sealing the covering in place on-site. This is to improve the ease of slitting and re-sealing tubes onto disting pipework (without having to cut through the Tuffcoat covering) and to make it easier to stretch the tube over new pipework sulation for hot and cold water services, chilled water lines, heating systems, air conditioning and refrigerated pipework to provide condensation										
Applications					ervices, chilled rost protection.	water lines,	heating systems	s, air conditio	oning and ref	rigerated pipe	work to pro	vide condensation
	Easy to wip	pe cl	lean an	d wash dow	n - suitable for f	ood manufa	acturing, hospital	s and schoo	ls.			
					0.		rotection against			ack.		
Special Features							nd ground source	neat pump	pipes.			
Safety and Environment	ODP zero GWP zero Fibre dust				ional coating is	necessary.						
Property	Value/Ass	essi	ment							Test <sup>*1</sup>	Super- vision <sup>*2</sup>	Special Remarks
Temperature Range										1	1	
Temperature Range <sup>1</sup>	Max. servic					+110 °C -50 °C				EU 5412		According to EN 14706, EN 14707 + EN14304
Thermal Conductivity			mperatt			-50 0						
Thermal		ϑ <sub>m</sub>	+/-	0	°C		λ=			EU 5412		Tested acc. to EN
Conductivity	Tubes 6-19mm	λ	≤ 0.0		W/(m ·	K)	[33 + 0,1· ϑ	m + 0,0008 ·	ϑ <sub>m</sub> ²]/1000			ISO 8497 + EN 12667
	Sheets 13 - 25mm	λ	≤ 0.0	33	W/(m ·	K)	[33 + 0,1· ϑ	m + 0,0008 ·	ϑ <sub>m</sub> ²]/1000			
	Tubes 25mm	λ	≤ 0.0	36	W/(m ·	K)	[33 + 0,1· ϑ	m + 0,0008 ·	ϑ <sub>m</sub> ²]/1000			
Water vapour diffusio	n resistance											
Water vapour diffusion resistance	tubes & sh	eet		μ		≥		15,000		EU 5412		Tested acc. to EN 12086 EN 13469
Fire performance												1
Reaction to fire <sup>2</sup>	Surface Sp	oread	d of Fla	mes		Class 1*				GB5151 / GB5153	∘/∙	Surface Spread of Flame acc. to BS 476 Part 7: 1997
	Fire Propa	gatic	on				lex Performance ex ( $i_1$ ) $\leq 6$	(I) ≤ 12		GB5150 / GB5152		Fire Propagation acc. to BS 476 Par 6: 1989
	Fire Perfor	man		to Building	Regulation	Class 0*						Classified acc. to E
	Euroclass	man		to Duliuling	regulation	E						13501-1 Tested acc. to EN ISO 11925-2
Other technical featu	res											
Dimensions and tolerances	In accorda	In accordance with EN 14304, table 1										
Resistance to mechanical impact	Very Good											
Chemical behaviour	Consult Pro	oduc	ct Test L	list								
UV resistance	Excellent											
Antimicrobial behaviour	In-built Mic	roba	an® anti	microbial pr	otection : No fu	ngal growth	observed					
<ol> <li>For temperatures above</li> <li>*Class O Armaflex insul</li> </ol>	ation and Tuffcoat	t cover	ring both C	Class O fire rated								
*1 Further documents such *2 •: Official supervision b					ed using the registrati	on number give	n.					

Onicial supervision by independent institutes and for test aution;
 In-house quality monitoring

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. Please consult our Technical Department before insulating stainless steel. Armaflex 520 adhesive must be used to guarantee correct installation.

#### Armaflex Tuffcoat tubes



Product Modification 2014: Armaflex Tuffcoat tubes are now supplied in 1m lengths with a section of the Tuffcoat film un-adhered to the Armaflex tube and covered with a self-adhesive backing for sealing the covering in place on-site. This is to improve the ease of slitting and re-sealing tubes onto existing pipework (without having to cut through the Tuffcoat covering) and to make it easier to stretch the tube over new pipework

ріремоїк (мішос	it naving to cut	irough the Tuffcoat covering) and to make it easier to stretc						
Pipe max. Outside-Ø [mm]	Inner Ø min/max		i <b>te 13,0 mm</b> tion thickness			ck 13,0 mm ation thickness		
[IIIII]	mm (tube)	Code	m/carton		Code	m/carton		
10	11.0 - 13.0	CO-13X010/WH-1M •	94		CO-13X010/BK-1M •	94		
12	13.0 - 15.0	CO-13X012/WH-1M •	81		CO-13X012/BK-1M •	81		
15	16.0 - 18.0	CO-13X015/WH-1M •	68		CO-13X015/BK-1M •	68		
20	21.0 - 23.0	CO-13X020/WH-1M •	56		CO-13X020/BK-1M •	56		
22	23.0 - 25.0	CO-13X022/WH-1M •	52		CO-13X022/BK-1M •	52		
28	29.0 - 31.5	CO-13X028/WH-1M •	39		CO-13X028/BK-1M •	39		
35	36.0 - 38.5	CO-13X035/WH-1M •	30		CO-13X035/BK-1M •	30		
42	43.0 - 46.0	CO-13X042/WH-1M •	28		CO-13X042/BK-1M •	28		
48	49.0 - 51.5	CO-13X048/WH-1M •	20		CO-13X048/BK-1M •	20		
54	55.0 - 58.0	CO-13X054/WH-1M •	21		CO-13X054/BK-1M •	21		
60	61.0 - 64.0	CO-13X060/WH-1M •	18		CO-13X060/BK-1M •	18		
67	68.0 - 71.0	CO-13X067/WH-1M •	17		CO-13X067/BK-1M •	17		
Pipe max. Outside-Ø	Inner Ø min/ max mm		White 19,0 mm insulation thickness			ack 19,0 mm ation thickness		
[mm]	(tube)	Code	m/carton		Code	m/carton		
							1	

[]	(	Code	m/carton	Code	m/carton	
12	13.0 - 15.0	CO-19X012/WH-1M •	46	CO-19X012/BK-1M •	46	
15	16.0 - 18.0	CO-19X015/WH-1M •	39	CO-19X015/BK-1M •	39	
20	21.0 - 23.0	CO-19X020/WH-1M •	35	CO-19X020/BK-1M •	35	
22	23.0 - 25.0	CO-19X022/WH-1M •	32	CO-19X022/BK-1M •	32	
28	29.0 - 31.5	CO-19X028/WH-1M •	25	CO-19X028/BK-1M •	25	
35	36.0 - 38.5	CO-19X035/WH-1M •	20	CO-19X035/BK-1M •	20	
42	43.0 - 46.0	CO-19X042/WH-1M •	16	CO-19X042/BK-1M •	16	
48	49.0 - 51.5	CO-19X048/WH-1M •	15	CO-19X048/BK-1M •	15	
54	55.0 - 58.0	CO-19X054/WH-1M •	12	CO-19X054/BK-1M •	12	
60	61.0 - 64.0	CO-19X060/WH-1M •	12	CO-19X060/BK-1M •	12	
67	68.0 - 71.0	CO-19X067/WH-1M •	10	CO-19X067/BK-1M •	10	
76	77.0 - 80.0	CO-19X076/WH-1M •	9	CO-19X076/BK-1M •	9	
80	81.0 - 84.0	CO-19X080/WH-1M •	8	CO-19X080/BK-1M •	8	
89	90.0 - 93.0	CO-19X089/WH-1M •	8	CO-19X089/BK-1M •	8	
93	94.0 - 97.0	CO-19X093/WH-1M •	8	CO-19X093/BK-1M •	8	
108	110.0 - 114.0	CO-19X108/WH-1M •	6	CO-19X108/BK-1M •	6	
114	116.0 - 120.0	CO-19X114/WH-1M •	6	CO-19X114/BK-1M •	6	

Pipe max. Outside-Ø [mm]	Inner Ø min/ max mm (tube)		mm [white] ation thickness		) mm [black] ation thickness	
[IIIII]	(tube)	Code	m/carton	Code	m/carton	
12	13.0 - 15.0	CO-25X012/WH-1M •	25	CO-25X012/BK-1M •	25	
15	16.0 - 18.0	CO-25X015/WH-1M •	24	CO-25X015/BK-1M •	24	
20	21.0 - 23.0	CO-25X020/WH-1M •	20	CO-25X020/BK-1M •	20	
22	23.0 - 25.0	CO-25X022/WH-1M •	20	CO-25X022/BK-1M •	20	
28	29.0 - 31.5	CO-25X028/WH-1M •	16	CO-25X028/BK-1M •	16	
35	36.0 - 38.5	CO-25X035/WH-1M •	12	CO-25X035/BK-1M •	12	
42	43.0 - 46.0	CO-25X042/WH-1M •	12	CO-25X042/BK-1M •	12	
48	49.0 - 51.5	CO-25X048/WH-1M •	11	CO-25X048/BK-1M •	11	
54	55.0 - 58.0	CO-25X054/WH-1M •	9	CO-25X054/BK-1M •	9	
60	61.0 - 64.0	CO-25X060/WH-1M •	9	CO-25X060/BK-1M •	9	
67	68.0 - 71.0	CO-25X067/WH-1M •	8	CO-25X067/BK-1M •	8	
76	77.0 - 80.0	CO-25X076/WH-1M •	7	CO-25X076/BK-1M •	7	
80	81.0 - 84.0	CO-25X080/WH-1M •	6	CO-25X080/BK-1M •	6	
89	90.0 - 93.0	CO-25X089/WH-1M •	6	CO-25X089/BK-1M •	6	
93	94.0 - 97.0	CO-25X093/WH-1M •	6	CO-25X093/BK-1M •	6	
108	110.0 - 114.0	CO-25X108/WH-1M •	4	CO-25X108/BK-1M •	4	
114	116.0 - 120.0	CO-25X114/WH-1M •	4	CO-25X114/BK-1M •	4	

Remark

Other colours available on request.

• Not a stock item. Delivery on request.

#### Armaflex Tuffcoat pre-covered sheet

	Black						White				
Code	Thickness [mm]	Width [m]	Pieces/ carton	m²/carton		Code	Thickness [mm]	Width [m]	Pieces/ carton	m²/carton	
CO-13MM/BK •	13.0	0.5	9	9		CO-13MM/WH •	13.0	0.5	9	9	
CO-19MM/BK •	19.0	0.5	7	7		CO-19MM/WH •	19.0	0.5	7	7	
CO-25MM/BK •	25.0	0.5	5	5		CO-25MM/WH •	25.0	0.5	5	5	
Length tolerance sheets	for	± 1,5 %		•	•						
Thickness tolerance for 13 - 19 mm ± 1,5 mm											

Remark

>19 mm ± 2,0 mm

Other colours available on request

• Not a stock item. Delivery on request.

## Armaflex Tuffcoat pre-covered self-adhesive sheet

			White								
Code	Thickness [mm]	Width [m]	Pieces/ carton	m²/ carton		Code	Thickness [mm]	Width [m]	Pieces/ carton	m²/ carton	
CO-13MM/A-BK •	13.0	0.5	9	9		CO-13MM/A-WH •	13.0	0.5	9	9	
CO-19MM/A-BK •	19.0	0.5	7	7		CO-19MM/A-WH •	19.0	0.5	7	7	
CO-25MM/A-BK •	25.0	0.5	5	5		CO-25MM/A-WH •	25.0	0.5	5	5	

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

• Not a stock item. Delivery on request.

### Armaflex Tuffcoat pre-covered endless sheets (rolls)

		Black	White					
Code	Thickness [mm]	Roll length [m]	m²/carton	Code	Thickness [mm]	Roll length [m]	m²/carton	
CO-13MM/E-BK •	13.0	8	8	CO-13MM/E-WH •	13.0	8	8	
CO-19MM/E-BK •	19.0	6	6	CO-19MM/E-WH •	19.0	6	6	
CO-25MM/E-BK •	25.0	4	4	CO-25MM/E-WH •	25.0	4	4	

Length tolerance for sheets ± 5 % - 1.5%

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

• Not a stock item. Delivery on request.

#### Armaflex Tuffcoat pre-covered endless sheets self-adh (rolls)

	White								
Code	Thickness [mm]	Roll length [m]	m²/carton		Code	Thickness [mm]	Roll length [m]	m²/carton	
CO-13MM/EA-BK •	13.0	8	8		CO-13MM/EA-WH •	13.0	8	8	
CO-19MM/EA-BK •	19.0	6	6		CO-19MM/EA-WH •	19.0	6	6	
CO-25MM/EA-BK •	25.0	4	4		CO-25MM/EA-WH •	25.0	4	4	

Length tolerance for sheets Thickness tolerance for sheets 13 - 19 mm ± 1,5 mm

± 5 % - 1.5% >19 mm ± 2,0 mm

• Not a stock item. Delivery on request.







# Armaflex Tuffcoat covering rolls

Code	Thickness [mm]	Width [mm]	Length [m]	m²/roll	
TC-BK-1M/100M •	1	1,000.0	100	100	
TC-WH-1M/100M •	1	1,000.0	100	100	

• Not a stock item. Delivery on request.

## Armaflex Tuffcoat self-adhesive tapes

Code	Colour	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton	
TUFF-TP-12,5/BK •	Black	12.5	50	0.08	16	
TUFF-TP-12,5/WH •	White	12.5	50	0.08	16	
TUFF-TP-25/BK •	Black	25.0	50	0.08	8	
TUFF-TP-25/WH •	White	25.0	50	0.08	8	
TUFF-TP-50/BK •	Black	50.0	50	0.08	4	
TUFF-TP-50/WH •	White	50.0	50	0.08	4	

• Not a stock item. Delivery on request.

### Armaflex Tuffcoat accessories

Code	Description	Pieces/carton	
ACH-MASTICD •	Mastic black. Sealing compound for installing Arma-Chek, 290 ml	12	
TC-MASTIC •	White mastic. Sealing compound for installing Armaflex Tuffcoat. Food safe, 310 ml.	6	

• Not a stock item. Delivery on request.



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