

FOR SAFETY, EFFICIENCY & BETTER INDOOR AIR QUALITY

ArmaFlex® Class 0

The trusted insulation system for HVAC applications

- // Class 0 fire classification according to BS476 Parts 6 and 7
- // Reduces mould and bacteria growth with MICROBAN® anti-microbial product protection, unique to Armacell
- // Effectively reduces thermal and energy loss

www.armacell.com











ArmaFlex Class 0

Your trusted insulation system for HVAC applications. Conserves energy and reduces heat loss. Class 0 fire classification according to BS476 Parts 6 and 7. Certified by leading international fire safety agencies. Fibre-free. Infused with Microban anti-microbial protection for even better indoor air quality.

Energy efficient





Better air quality





// Excellent fire performance

FM Approved for entire range of insulation thickness. Certified to conform to safety, reliability and performance standards of various local fire safety bodies.

// Closed-cell structure

Minimises moisture penetration to ensure long-term protection against corrosion under insulation. Removes the need for an additional water vapour barrier.

// Energy efficient

Low thermal conductivity minimises energy losses to give long term energy savings.

// Microban protection

When microbes come into contact with the insulation surface, Microban penetrates the cell wall of the microorganism, disabling its ability to function, grow and reproduce.

// Environmentally safe

Zero Ozone Depletion Potential and Global Warming Potential; rated "Excellent" by Singapore Green Building Council.

// Safer indoor air quality

Fibre-free, free of formaldehyde and GREENGUARD® Gold certified for low emissions of volatile organic compounds.

// Easy-to-install

Highly flexible elastomeric foam that can be installed quickly on irregular shapes and installations in tight

TECHNICAL DATA - ARMAFLEX CLASS 0

Marcard type Backers Colour Backers	Brief description	ArmaFlex No additio	Class 0 is a	a flexible in vapour barr	sulation m. ier is requi	aterial that red.	reliably prote	ArmaFlex Class 0 is a flexible insulation material that reliably protects against water vapour ingress due to its closed-cell structure. No additional water vapour barrier is required.
Black. ArmaFlex sheets is infused with Microban anti-microbial protection to provide additional assurance against mout one. ArmaFlex sheets is infused with Microban anti-microbial protection to provide additional assurance against mout one. Thermal installation protects on of pipes, air ducts and vessels line, elbows, fittings, flarings set. In hot and cold weather the provide additional assurance against mout one. The place refer of the ArmaFlex installation spectral against frost and reduce energy loss. I Type III Environmental Product Declaration (EPDI): Declaration number 4786/44/121.10.1.1, U.E. Environment. Please refer to the ArmaFlex installation spectral against frost and reduce energy loss. I Type III Environmental Product Declaration (EPDI): Declaration number 4786/44/12.10.1.1, U.E. Environment. Please refer to the ArmaFlex installation spectral against frost and reduce energy loss. In a 10,000 pour diffusion resistance I pa 10,000 pour permeability I pa 10,000 Class B1 created the permeability of the Frie Services Department of Horay Mong for the entire range of thickness. Proposed of Itame Class B1 Cl	Material type	Elastomer	ic foam ba	sed on syn	thetic rubbe	er.		
adures ArmaFlax sheets is infused with Microban anti-microbial protection to provide additional assurance against mou mans water inest, healing systems, air conditional guidence for bows, fitting, langes etc). In not and cold wy public public public posters, air conditioning ductwork and refrigenate players (langes etc). In not and cold wy public public publicitys to control condensation, protect against rost and refuge the public players for a complete insulation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation system. You leave refer to the ArmaFlax in restallation remained and restallation remained and refer refer refer to the restallation remained and restallation restallation. Min. service temperature -90°C Interestation restallation restallation remained restallation restallation. You products You products You products You product softman attempted to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Product conforms to the requirement of Hong Kong for the entire range of thickness. Shelter and formalist product protection metals when the product send the restallation. You be a station of t	Colour	Black.						
water incubation/protection of pipes air ducks and vessels brick althous, fittings, large and collar in the and cold is public clinic hashing yeathers, all conditioning all covers and refigures all persons, from plants in part of cold is public utilizings to control years and refigures and persons, from plants in commercial, mount of more incommental product Bechanism (EPD). Declaration number 478644(12) 1011, ULE Environment. Wy Value/Assessment Value/A	Special features	ArmaFlex	sheets is ir	nfused with	Microban	anti-microk	ial protection	າ to provide additional assurance against mould and bacteria g
y Please rolar to the ArmaFlex installation manual for advice. ArmaFlox can be used together with ArmaFlex 520 a please rolar to the ArmaFlex installation manual for advice. ArmaFlox can be used together with ArmaFlex 520 a y Value/Assessment Value/Assessmen	Applications	Thermal ii water line public bui	nsulation/p s, heating s ldings to co	rotection o systems, ai ontrol cond	f pipes, air r conditioni ensation, pi	ducts and ving ductwor	essels (incl. k and refrige st frost and i	elbows, fittings, flanges etc.) in hot and cold water services, chrated pipework, installed in commercial, industrial, residentia reduce energy loss.
Please refer to the ArmaFlex insaliation reanual for advice. ArmaFlex can be used together with ArmaFlex. \$20 a permanual for advice. ArmaFlex can be used together with ArmaFlex. \$20 a permanual for advice. ArmaFlex can be used together with ArmaFlex. \$20 a permanual for advice. ArmaFlex can be used together with ArmaFlex. \$20 a full reference. Value/Assessment	Safety and environment	Type III Er	vironmenta	al Product	Declaration	(EPD): Dec	laration num	lber 4786944121.101.1, UL Environment.
ture range Value/Assessment 455° C if cheet or tape is glued to the object with its whole surface. emperature Max. service temperature -50° C 465° C if cheet or tape is glued to the object with its whole surface. conductivity 9m 20 ±/-0 +20 ±40 [°C] pour permeability 41.000 -20 ±/-0 +20 ±40 [°C] pour permeability 41.000 -20 ±/-0 20.034 0.039 [W/lm Ki]] pour permeability 41.96 x 10.000 -20 ±/-0 20.034 0.039 [W/lm Ki]] pour permeability 41.96 x 10.000	Assembly	Please ref pipehange	er to the Au ers for a cor	rmaFlex in mplete inst	stallation m Jation syst	nanual for a em.	dvice. Armaf	lex can be used together with ArmaFlex 520 adhesive and Arm
Nure range Max. service temperature +105 °C 485 °C If sheet or tape is glued to the object with its winde surface. Lonductivity Min. service temperature 20 °C with its winde surface. pour diffusion resistance pour diffusion resistance or factor 0.032 0.034 0.035 0.039 [W/lm kl]] pour permeability 41.9x x 10.ººg/m.s-Pa) pour permeability 41.9x x 10.ººg/m.s-Pa) pormance & approvist Class 1 comance according to Class 0 Class 1 remance according to Class 0 Class 1 send products V.O., FM Approved bilision V.O., FM Approved bilision Does not generate flaming droplets. Registered by the Fire Services Department of Hong Kong for the entire range of thickness. product conforms to the requirements for building products under the Fire Salety and Shelter Department. chhical features Product conforms to the requirements for building product sunder the Fire Salety and Shelter Department. chhical features Excellent resistance to ozone, oil and chemicals (consult product test list). Liresistance Excellent resistance to ozone, oil and chemicals (consult product test list). Liresistance Excellent product product product product product sunder the Fire Salety and Shelter Department. product Salety Application of famous product sund the missions. Free of fire and formaldehyde.	Property	Value/As	sessmen	7				Standard/Tes
amperature Max. service temperature +105 °C	Temperature range							
conductivity Conductivity	Service temperature	Max. servi	ce tempera	ature	+105 °C			+85 °C if sheet or tape is glued to the object with its whole surface.
conductivity		Min. servi	ce tempera	ture	-50 °C			
pour diffusion resistance pour diffusion resistance pour diffusion pour permeability pour diffusion public pour permeability permeability pour permeability permeability pour permeability permeability permeability permeability permeability permeability permeability permeability permea	Thermal conductivity							
pour diffusion resistance pour diffusion resistance pour diffusion resistance pour diffusion pure formation (1.000) refactor pour permeability remarke & approvals Class 1 Class 1 Class B1 Clas		θm	-20	+/-0	+20	+40	[00]	ASTM C518, EN
pour diffusion resistance pour diffusion pour diff		~	0.032	0.034	0.036	0.039	[W/[m·K]]	
pour diffusion # \$10,000 # \$10000 # \$10000 # \$10000 # \$10000 # \$10000 # \$10000 # \$10000 # \$10000 # \$1	Water vapour diffusion resistan	Ce						
pour permeability \$1.96 x 10^9/(m-s-Pa)	Water vapour diffusion resistance factor	µ ≥ 10,000						DIN EN 13469. DIN EN 12086,
formance & approvals Class 1 spread of flame Class 0 regulations Class 0 commance according to regulations Class B 1 behaviour of building sand products V-0,FM Approved bility V-0,FM Approved clire behaviour Does not generate flaming droblets. chhical features Product conforms to the requirements for building products under the Fire Safety and Shelter Department. classistance Excellent resistance to ozone, oil and chemicals from the fire Safety and Shelter Department. storption by vacuum < 10%	Water vapour permeability	≤ 1.96 x 10) ⁻¹¹ g/(m·s·P	a)				GB/T 17146-199
spread of flame Class 0 Class 0 Class 0 Class B1 Cl	Fire performance & approvals							
ormance according to Class 0 regulations Class B1 Class B1 Lifty V-0, FM Approved V-0, FM Approved V-0, FM Approved Send products Elity V-0, FM Approved Send products Send generate flaming droplets. Product conforms to the requirements for building products under the Fire Salety and Shelter Department, Singapore. Ce after compression V-0% Lresistance Eccellent resistance to ozone, oil and chemicals (consult product test list). For UV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Self-in Microban anti-microbial product protection in sheets: No fungal growth is observed. Free of fibre and formal dehyde. Cov volstile organic compounds VOC, Low Total Aldehyde. Sengapore Green Building Product Certified: "Excellent" rating. Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature organic shall be shored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature organic shall be shored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature organic shall be shored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature organic compounds.	Surface spread of flame	Class 1						BS 476 Part 7:1
behaviour of building s and products S and products S and products V-0, FM Approved Life behaviour Does not generate flaming droplets. Registered by the Fire Services Department of Hong Kong for the entire range of thickness, Product conforms to the requirements for building products under the Fire Safety and Shelter Department, Singapore. Replace of thickness, Product conforms to the requirements for building product sunder the Fire Safety and Shelter Department, Singapore. Lecellent resistance to ozone, oil and chemicals (consult product test list). Lecellent resistance book protected within 3 days of installation. Lecellent resistance book protected within 3 days of installation. Level of fibre and formaldehyde. Low volatile organic compounds (VOC), Low Total Addehyde. Self-Reful (ART) Bod for reven Lower VOC and total chemical emissions. Zero ODP and GWP. Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (or C to 35°C). Self-adhesive sheets, tubes and tapes: 1 year.	Fire performance according to building regulations	Class 0						BS 476 Part 6:1'
Does not generate flaming droplets.	Burning behaviour of building materials and products	Class B1						GB 8624 -2012
If the behaviour Does not generate flaming droplets. Registered by the Fire Services Department of Hong Kong for the entire range of thickness. Product conforms to the requirements for building products under the Fire Safety and Shelter Department, Singapore. * 70% cater compression * 70% Excellent resistance to ozone, oil and chemicals (consult product test list). It resistance Excellent resistance to ozone, oil and chemicals (consult product test list). For IV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Tobial behaviour Built-in Microban anti-microbial product protection in sheets. No fungal growth is observed. Free of fibre and formaldehyde. GREEKBUARD Gold for even lower YOC and total chemical emissions. GREEKBUARD Gold for even lower YOC and total chemical emissions. Zero ODP and GWP. Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature of the product certified: "Excellent" rating. Self-adheesive sheets, tubes and tapes: 1 year.	Flammability	V-0, FM A	pproved					UL 94, FM 4924
Product conforms to the requirements for building products under the Fire Safety and Shelter Department, Singapore. chinical features ce after compression > 70% (10% Excellent resistance to ozone, oil and chemicals (consult product test tist). For IV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex ance should be protected within 3 days of installation. Robial behaviour Built-in Microban anti-microbial product protection in sheets. No fungal growth is observed. Free of fibre and formatlehyde. Low volatile organic compounds (VOC), Low Total Aldehyde. GREEKBUARD Gold for even Lower VOC and total chemical emissions. Self-adheesive sheets, tubes and toy, clean rooms at normal relative humidity (50% to 70%) and ambient temperature orage life) Self-adheesive sheets, tubes and tapes; 1 year.	Practical fire behaviour	Does not o	generate fla	aming drop	lets.			
chical features ce after compression ≥ 70% Excellent resistance to ozone, oil and chemicals (consult product test list). For IV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Spects Low valiable organic compounds (VOC), Low Total Atlaehyde. GREENGUARD Gold for even lower VOC and total chemical emissions. Zero ODP and GWP. Singapore Green Building Product Certified: "Excellent" rating. Material Is shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature organic life) Self-adhesive sheets, tubes and tapes: 1 year.	Others	Registerer Product co Singapore	d by the Fir onforms to	e Services the require	Departmen ments for I	it of Hong K building pro	ong for the e	ntire range of thickness. the Fire Safety and Shetter Department,
te after compression ### 20% Applied by vacuum ### 20% Insert	Other technical features							
ssorption by vacuum Eccellent resistance to ozone, oil and chemicals (consult product test list). Iresistance Err UV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Built-in Microban anti-microbial product protection in sheets: No fungal growth is observed. Free of fibre and formal dehyde. Low volatile organic compounds: NOC), Low Total Aldehyde. GREENGLARD Gold for even lower VOC and total chemical emissions. Zero ODP and GWP. Self-adheesive sheets, tubes and tapes: 1 year.	Resilience after compression relief	> 70%						GB/T 6669-2001
It resistance Excellent resistance to ozone, oil and chemicals (consult product test list). For UV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Built-in Microban anti-microbial product protection in sheets: No fungal growth is observed. Free of fibre and formal dehyde. Low volatile organic compounds: NOC), Low Total Aldehyde. GREENGLARD Gold for even lower VOC and total chemical emissions. Zero ODP and GWP. Self-adheesive sheets, tubes and tapes: 1 year.	Water absorption by vacuum	≤ 10%						GB/T 17794
tance For IV protection, ArmaFinish Paint or Arma-Chek® covering system is required. For outside use, ArmaFlex should be protected within 3 days of installation. Built-in Microban anti-microbial product protection in sheets: No fungal growth is observed. Free of fine and formaldehyde. Low volatile organic compounds (VOC), Low Idala Aldehyde. GREENG ARAP Goold for even lower VOC and total chemical emissions. Seno DDP and GWP. Teno DDP and GWP. Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (o "C to 35 C). Self-adheeive sheets, tubes and tapes: 1 year.	Chemical resistance	Excellent	resistance	to ozone, o	il and chem	nicals (cons	ult product to	st list).
robial behaviour Built-in Microban anti-microbial product protection in sheets: No fungal growth is observed. Free of fibre and formaldehyde. Free of fibre and formaldehyde. Low volatile organic compounds (VOC), Low Total Aldehyde. GREEN LARAP Dodd for even lower VOC and total chemical emissions. Zero ODP and GWP. Singapore Green Building Product Certified: "Excellent" rating. Materials Labe as tored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature to "C to 35" C). Self-adhesive sheets, tubes and tapes: 1 year.	UV resistance	For UV pro	protected v	maFinish F within 3 day	aint or Arr /s of install	na-Chek® c ation.	overing syste	m is required. For outside use, ArmaFlex
spects Free of fibre and formaldehyde. Low vokalite organic compounds (VOC), Low Total Aldehyde. Sqrack (MART Dodd for even lower VOC and total chemical emissions. Zero ODP and GWP. Singapore Green Building Product Certified: "Excellent" rating. Materials Labe as tored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35°C). Self-adhesive sheets, tubes and tapes: 1 year.	Anti-microbial behaviour	Built-in M	icroban ant	ti-microbia	l product pi	rotection in	sheets: No fi	ungal growth is observed.
nental aspect	Health aspects	Free of fib Low volati GREENGL	re and forn le organic JARD Gold f	naldehyde. compounds for even lov	s (VOC), Lov ver VOC an	v Total Alde d total cher	hyde. nical emissio	
orage life)	Environmental aspect	Zero ODP Singapore	and GWP. Green Buil	lding Produ	act Certified	ป: "Exceller	t" rating.	
	Storage	Material s	hall be stor	red in dry, o	tlean room:	s at normal	relative hum	idity (50% to 70%) and ambient temperature
	Shelf (storage life)	Self-adhe	sive sheets	, tubes and	tapes: 1 ye	ear.		

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own indexest and responsibility, clarify with our Technical department in due time whether or not the data and information apply to the intended application area. For outside use, ArmaFlex should be protected with Armafinish Paint or Arma-Chek* covering within 3 days of installation.

Tubes (Length: 2.0m)

וממכט (בכווש מוו ב.סווו)) (11: 2.0111)										
61	6mm	9mm	Ħ	13	13mm	19	19mm			П Б	2
ltem	Carton content	Item	Carton content	Item	Carton content	Item	Carton content	inner diameter	outer diameter	outer diameter	diameter (DN)
	Ξ		Ξ		Ξ		Ξ	[mm]		[mm]	
		COB-09X006# 312	312	COB-13X006	180	COB-19X006	96	6	1/4		
		COB-09X010# 264	264	COB-13X010	144	COB-19X010	84	10	3/8		6
		COB-09X012"	220	COB-13X012	128	COB-19X012	84	12	1/2	ı	
COB-06X015" 264	264	COB-09X015	180	COB-13X015	112	COB-19X015	70	15	5/8	14	00
		COB-09X020	144	COB-13X020	90	COB-19X020	60	20	3/4		
COB-06X022# 180	180	COB-09X022	128	COB-13X022	90	COB-19X022	60	22	7/8	22	15
COB-06X025#	144	COB-09X025	108	COB-13X025	80	COB-19X025	50	25	_	25	
		COB-09X028	98	COB-13X028	72	COB-19X028	50	28	1-1/8	28	20
		COB-09X032"	84	COB-13X032	64	COB-19X032	40	32	1-1/4	32	
		COB-09X035	82	COB-13X035	58	COB-19X035	40	35	1-3/8		25
		COB-09X038	72	COB-13X038#	54	COB-19X038#	36	38	1-1/2	38	
		COB-09X042	64	COB-13X042	48	COB-19X042	36	42	1-5/8		32
						COB-19X045#	30	45	1-3/4		
		COB-09X048# 56	56	COB-13X048#	42	COB-19X048	30	48	1-7/8		40
		COB-09X054" 54	54	COB-13X054	42	COB-19X054	30	54	2-1/8		
				COB-13X057#	36	COB-19X057#	28	57	2-1/4	57	
		COB-09X060# 54	54	COB-13X060	36	COB-19X060	24	60	2-3/8	ı	50
				COB-13X067"	36	COB-19X067"	22	67	2-5/8		
				COB-13X076	32	COB-19X076	16	76	3	76	
								80	3-1/8		
				COB-13X089	24	COB-19X089	12	89	3-1/2	89	80
				COB-13X108#	16	COB-19X108#	10	108	4-1/4	108	
				COB-13X114"	16	COB-19X114#	10	114	4-1/2	114	100
								133	5-1/4		
						COB-19X140#	6	140		1	125

Nade to order. Minmum order quantities and different lead times may apply. Self-adhesive option available upon request, Minimum order quantities and different lead times may apply.

	1.22	1.22m width			1.5	1.50m width	
ltem	Insulation thickness	Carton content	Length	Item	Insulation thickness	Carton content	Length
	[mm]	[mps]	[m]		[mm]	[sqm]	[m]
				COB-06150/E#	6	22.5	15
				COB-09150/E	9	15.0	10
COB-13122/E"	13	9.76	8	COB-13150/E	13	12.0	8
				COB-16150/E#	16	10.5	7
COB-19122/E"	19	7.32	6	COB-19150/E	19	9.0	6
COB-25122/E	25	4.88	4	COB-25150/E	25	9.0	6
COB-30122/E#	30	3.66	ω	COB-30150/E	30	6.0	4
COB-32122/E#	32	3.66	ω	COB-32150/E	32	6.0	4
				COB-35150/E#	35	6.0	4
COB-40122/E"	40	3.66	3				
COB-50122/E#	50	3.05	2.5				

"Made to order. Minimum order quantities and different lead times may apply. Self-adhesive option available upon request. Minimum order quantities and different lead times may apply.

Tubes (Length: 2.0m)

Tubes (Length: 2.0m)	h: 2.0m)										
Ca Item co	Carton	Item co	Carton content	Ltem co	Carton content	Ca Item co	Carton	 Insulation inner diameter 	Cu pipe outer diameter	Fe pipe outer diameter	Nominal diameter (DN)
	E		2				E	[mm]	- 1	- 1	1
COB-25X006	60	COB-32X006#	30	COB-40X006#	20	COB-50X006#	12	6	1/4		
COB-25X010	54	COB-32X010	36	COB-40X010	24	COB-50X010#	12	10	3/8		
C0B-25X012	48	COB-32X012	32	COB-40X012#	24	COB-50X012#	12	12	1/2	ı	
COB-25X015	40	COB-32X015	32	COB-40X015	22	COB-50X015#	12	15	5/8	14	
COB-25X020	36	COB-32X020	24	COB-40X020	18	COB-50X020#	12	20	3/4		
C0B-25X022	36	COB-32X022	24	COB-40X022	18	COB-50X022#	12	22	7/8	22	15
COB-25X025	32	COB-32X025	22	COB-40X025#	18	COB-50X025#	12	25	_	25	
COB-25X028	32	COB-32X028	22	COB-40X028	16	COB-50X028#	12	28	1-1/8	28	20
COB-25X032	32	COB-32X032	20	COB-40X032#	16	COB-50X032#	10	32	1-1/4	32	
COB-25X035	30	COB-32X035	18	COB-40X035	12	COB-50X035	10	35	1-3/8		25
COB-25X038"	24	COB-32X038#	16	COB-40X038#	12	COB-50X038"	8	38	1-1/2	38 -	
C0B-25X042	24	COB-32X042	16	COB-40X042	12	COB-50X042	8	42	1-5/8		32
COB-25X045#	24	COB-32X045#	12	COB-40X045#	12			45	1-3/4		
COB-25X048	20	COB-32X048	12	COB-40X048	12	COB-50X048	8	48	1-7/8	ı	40
COB-25X054	20	COB-32X054"	12	COB-40X054"	10	COB-50X054"	8	54	2-1/8		
COB-25X057#	16	COB-32X057#	12	COB-40X057#	10			57	2-1/4	57	
COB-25X060	20	COB-32X060	12	COB-40X060	10	COB-50X060	00	60	2-3/8		50
COB-25X067	14	COB-32X067#	10	COB-40X067"	80	COB-50X067"	6	67	2-5/8	ı	
COB-25X076	16	COB-32X076	10	COB-40X076	80	COB-50X076	4	76	3	76	
COB-25X080"	12							80	3-1/8		
COB-25X089	16	COB-32X089	80	COB-40X089	00	COB-50X089	4	89	3-1/2	89	80
C0B-25X108#	80	COB-32X108#	6	COB-40X108#	6	COB-50X108#	4	108	4-1/4	108	
COB-25X114	6	COB-32X114"	6	COB-40X114	4	COB-50X114	4	114	4-1/2	114	100
		COB-32X133#	6	1				133	5-1/4		
COB-25X140"	6	COB-32X140*	4	COB-40X140*	4	COB-50X140		140		ı	150
*Made to order. M Self-adhesive opt	inimum order ion available u	quantities and differ pon request. Minimu	ent lead times im order quant	Made to order. Minimum order quantities and different tead times may apply. Self-adnesive option available upon request. Minimum order quantities and different tead times may apply.	ad times may a	pply.		j		ļ	
Accessories								I			
Item	ດ	Carton content		Article description	iption -						
AS-ATAPECOB-9M		24 rolls		ArmaFlex Class 0 insulation tape (3mm thickness x 50mm width x 9.14	s 0 insulations s x 50mm wi	n tape idth x 9.14 m)					
AS-AD-5201G	4:	4 x 3.78 litre cans		ArmaFlex 520 adhesive	adhesive						
AS-PAINT2.5LW		4 x 2.5 litre cans		ArmaFinish paint	int						
SF-CLEANER-1.0		6 x 1.0 litre cans		Solvent-free cleaner for use with	eaner for us	e with ArmaFlex adhesive	dhesive	ı			
CUTTING-SET				ArmaFlex cutting set [3 knives and 1 sharpening stone]	ing set sharpening	stone)					
GLUEM-BRUSH11MM		5 x 4		Gluemaster (11mm diameter) Comes with extra brush points	1mm diamet tra brush po	er) ints					
						,					

ltem	Carton content	Article description
AS-ATAPECOB-9M	24 rolls	ArmaFlex Class 0 insulation tape (3mm thickness x 50mm width x 9.14 m)
AS-AD-5201G	4 x 3.78 litre cans	ArmaFlex 520 adhesive
AS-PAINT2.5LW	4 x 2.5 litre cans	ArmaFinish paint
SF-CLEANER-1.0	6 x 1.0 litre cans	Solvent-free cleaner for use with ArmaFlex adhesive
CUTTING-SET	1	ArmaFlex cutting set [3 knives and 1 sharpening stone]
GLUEM-BRUSH11MM	5×4	Gluemaster (11mm diameter) Comes with extra brush points
GLUEM-BRUSH17MM	5×4	Gluemaster (17mm diameter) Comes with extra brush points
GLUEMASTER B	12	Gluemaster adhesive pump









//Cover Photo (Top)

Belfast City Hall, Northern Ireland

Reduce insulation thickness with thermal efficiency and acoustic attenuation in one product

The Beltast City Hall underwent a comprehensive overhaul to improve the thermal and acoustic insulation of its air-conditioning system. Due to the challenges of limited space as well as the need to suppress noise generated by the air-handling units, ArmaFlex Class 0 was used as an internal lining of the ductwork walls. With the benefit of thermal and acoustic insulation in one product, the total installed cost of insulation is effectively reduced.

//Cover Photo (Right)
South Beach, Singapore

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. 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. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,000 employees and 27 production plants in 17 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.





K-FLEX TITAN



CLOSED-CELL, FLEXIBLE, ELASTOMERIC FOAM INSULATION WITH A FLEXIBLE CO-EXTRUDED UV RESISTANT JACKETING

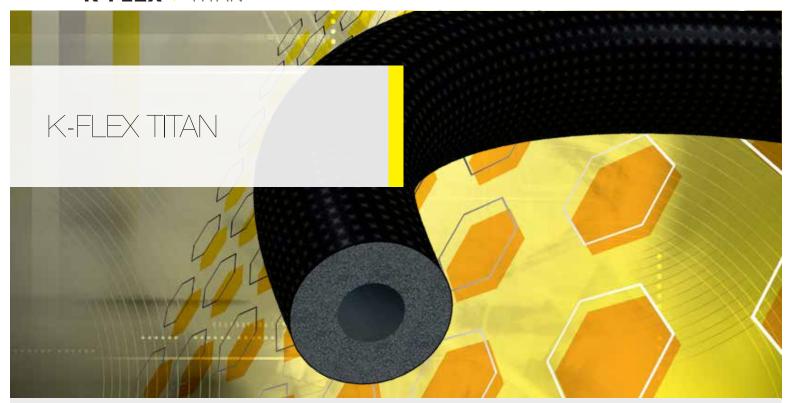








K-FLEX > TITAN



DESCRIPTION

K-FLEX TITAN is a flexible coextruded jacketed composite material applied to K-FLEX NBR/PVC tubular insulation. It is a polymeric jacketed material that offers excellent flexibility, abrasion and weather resistance, making it ideal for outdoor applications. This product is made in K-FLEX MALAYSIA's ISO 9001 certified manufacturing facility in Klang, Selangor.

AVAILABILITY

K-FLEX TITAN is black in color and is available in 1/2", 3/4", 1" and 1-1/2" wall thicknesses, non-slit and preslit 6' length tubes. It is available in diameter sizes ranging from 1/4" I.D. to 2-1/8" I.D. across all wall thicknesses and additional IDs dependent on wall thickness.

APPLICATIONS

K-FLEX TITAN can be used for outdoor applications with service temperatures ranging from -70 °F to +220 °F. The applications would be consistent with those recommended for K-FLEX Insul-Tube tubing. The product is used to enhance the weather and abuse resistance of the insulation tubing. K-FLEX TITAN is ideal for use on HVAC linesets and flex hose applications.

OUTDOOR APPLICATION

K-FLEX TITAN provides excellent UV resistance and protection from weather. K-FLEX TITAN's proprietary copolymer blend jacket provides excellent protection from mechanical abuse, including incidental impact from lawn equipment such as weed wackers (plastic string type). The product has a 5-year warranty.

INSTALLATION

1-Step Install: No field applied protective coating or additional jacketing required.

K-FLEX TITAN is durable (non-fracturing) and the skin is resistant to tearing from handling and the environment, safe to handle (nondusting and non-abrasive), and lightweight for an efficient installation. It is very flexible and easily conforms to bends. Its low modulus allows it to be pushed back for easy installation of fittings.

K-FLEX recommends that insulation is installed on non-operational systems with clean, dry surfaces in ambient conditions between 40 °F and 100 °F.

Properly sized insulation tubing can be slid over piping (tubing should be pushed, not pulled). All seams, butt joints, termination points and open ends should be sealed with an approved contact adhesive, making sure both surfaces to be joined are coated. Vapor stops should be installed as needed. K-FLEX TITAN may be slit longitudinally for retrofit applications. ASTM C1710, Installation Guide for Flexible Closed Cell Foams, and the K-FLEX Installation Manual should be used as comprehensive installation guides.

RESISTANCE TO MOISTURE VAPOR

The expanded closed-cell structure and unique formulation inherently resists moisture vapor intrusion. K-FLEX TITAN needs no additional protection.

DIRECT BURIAL APPLICATIONS

K-FLEX TITAN can be installed in direct burial application if the lines are above the water table and not in a flood zone. K-FLEX TITAN should be installed in a single layer with all butt joint and longitudinal seams completely sealed with an approved contact adhesive (see technical bulletin TA 14). Install in a PVC conduct to prevent insulation compaction or increase insulation thickness by a minimum one wall size to compensate for compaction. Backfill materials shall not contain any angular/sharp edges and shall allow for drainage. For applications below the water table or in a flood zone, install K-FLEX TITAN in a sealed conduct or trench. See technical bulletin TA 10 for additional information.





TECHNICAL DATA

PHYSICAL PROPERTIES		K-FLEX TITAN	TEST METHODS
Main Composition		Flame-retarded NBR/PVC elastomeric foam with proprietary copolymer blend jacket	-
Thermal Conductivity	20°C Mean Temp	0.034 W/(m.K)	ASTM C177
Density		55 to 70 kg/m ³	ASTM D1667
Operating Temperature Range		-57°C +104°C	ASTM C534
Water Vapor Permeability (Dry Cup)	(Core Material Only)	<0.01 perm-in	ASTM E96
Water Vapor Permeance	(Jacket Material)	≤0.05 perms	ASTM E96
Dimensional Stability		<7% Linear Shrinkage	ASTM C534
UV Resistance (Artificial Aging)	(Jacket Material)	Pass: No Changes to Surface Condition	ASTM G153
Flammability		25/50 (up to 1-1/2") HF-1, V-0, 5VA	ASTM E84 UL 94

^{*}For applications below -40°C, contact K-FLEX technical support.

TITAN RANGE >

Copper	Pipe	Iron	Pipe	13 •	1/2"	19 •	3/4"	25	• 1"
OC Inches	ø OD mm	IPS Inches	ø OD mm	size	m/box	size	m/box	size	m/box
1/2"	12			13x13	128	19x13	72	25x13	50
5/8"	15	1/4"	13.5	13x16	112	19x16	60	25x16	50
3/4"	20			13x19	104	19x19	60	25x19	40
7/8"	22	1/2"	21.3	13x22	98	19x22	60	25x22	38
1•1/8"	28	3/4"	26.9	13x28	78	19x28	48	25x28	32
1•3/8"	35	1"	33.7	13x35	58	19x35	36	25x35	24
1•5/8"	42	1•1/2"	48.3	13x42	48	19x42	32	25x42	22
2•1/64"	51			13x51	36	19x51	24		
2•1/8"	54			13x54	34	19x54	24		
2•3/8"	60	2"	60.3	13x60	32	19x60	22		
2•41/64"	67			13x67	30	19x67	20		

PIPE "R" VALUES PER SQUARE FOOT	(ALL SIZES ARE NOMINAL)			
NOMINAL INSULATION I.D.	1/2" WALL	3/4" WALL	1" WALL	1-1/2" WALL
NOMINAL INSOLATION I.D.	K-Flex	K-Flex	K-Flex	K-Flex
1/4"	4.0	6.1	9.6	16.5
3/8"	3.6	5.6	8.5	14.6
1/2"	3.4	5.4	7.9	13.5
5/8"	3.3	5.4	7.5	12.8
3/4"	3.1	5.4	7.5	12.4
7/8"	3.2	5.4	7.2	11.6
1-1/8"	3.1	5.5	7.1	10.8
1-3/8"	3.2	5.3	7.3	10.2
1-5/8"	3.1	5.1	7.1	9.8
1-1/2" IPS	2.6	4.4	6.2	8.9
2-1/8"	3.0	4.9	6.6	9.2
2" IPS	2.9	4.8	-	-
2-1/2" IPS	3.0	4.6	-	-
2-5/8"	3.1	-	-	-



