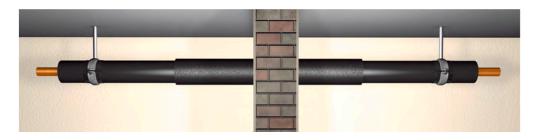


INSTALL IT. ENSURE SAFETY.

ArmaFlex Protect

Firestop tubes and sheets for fire seals in walls, floors, steel bulkheads and steel decks

- // Firestop and thermal insulation in one step
- // Fire resistance up to El 120
- // Fire resistance up to A-60
- // Fire resistance up to B-15
- // For application with hot and cold pipes (from -50°C up
 to +85°C)
- // Can be combined with ArmaFlex products as continued
 insulation
- // Quick and easy installation









INSTALL IT. ENSURE SAFETY.

ArmaFlex Protect



The appropriate test certificates are to be consulted for information on permitted pipe materials and other necessary basic conditions. During planning and execution, not only the diagrams shown but also the basic conditions of the test certificate must be observed.



Pipe outer diameter	Line temperature / Ambient temperature				
	+6 °C / 23 °C	0 °C / 23 °C	-5 °C / 23 °C	-10 °C / 23 °C	
≥ 10 mm < 323,9 mm	Relative humidity ≤ 80 %	Relative humidity ≤ 75 %	Relative humidity ≤ 70 %	Relative humidity ≤ 65 %	

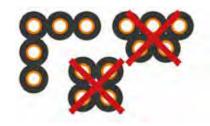
// Ideal for preventing condensation on refrigeration and cooling water systems

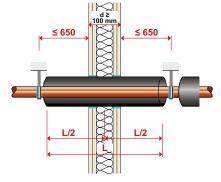
// Pipe Materials and Zero Distance

Due to its intumescent effect in the event of a fire, ArmaFlex Protect can be used to securely seal off penetrations not only for copper, steel and stainless steel pipework but also for combustible supply pipes such as multilayer composite pipes. ArmaFlex Protect is a system component working with all ArmaFlex elastomeric insulation materials and ArmaFlex 520 Adhesives.

The greatest advantage:

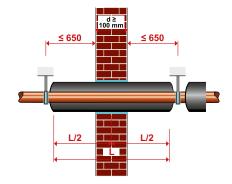
Metal pipes up to an outside pipe diameter of up to 88.9 mm and plastic pipes up to an outside pipe diameter of up to 75 mm can be installed at "zero distance" from each other.





// Lightweight Wall

In fire-rated lightweight walls, ArmaFlex Protect is installed centrally. The annular gap is closed within the insulation level using conventional filler is used against the gypsum board. Additional strips or protective insulation are not required.



classification A1 or A2-s1,d0 according to EN 13501-1 as e.g. mortar, cement or gypsum joint filler. Non-combustible material with classification A1 or A2-s1,d0 according to EN 13501-1 as e.g. mortar, cement or gypsum joint filler.

// Solid Wall

In fire-rated solid walls, ArmaFlex Protect is installed centrally. The gap is closed using ordinary mineral mortar. Additional strips are not required!

Non-combustible material with

TECHNICAL DATA - ARMAFLEX PROTECT

Brief description	Flexible fire seal and insulation for metal and composite pipes through fire-resistant walls and floors (up to EI 120, A-60 and B-15).				
Material type	Elastomeric foam based on synthetic rubber.				
Product colour range	Black				
Applications	Insulation and fire protection barrier for drinking water (hot/cold), heating and refrigeration metal pipes up to 324 mm diameter and composite pipes up to 75 mm. Detailed information on the fields of application (building elements, services, limits in size) and description of construction of the penetration seal are available in the ETA-11/0454. For information on marine applications, please consult your local Armacell contact or get in touch with our Customer Service.				
Installation	For industrial applications it is recommended to consult the relevant Armacell application manual(s). Use ArmaFlex 520 adhesive for a reliable and seamless installation.				
Declaration of performance	Declaration of Performance in accordance with Articl	e 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	EN 14706, EN 14707, EN		
	-50	85	14304		
Thermal conductivity					
Declared thermal conductivity	θm	0 °C	EN 12667, EN ISO 8497		
	λd ≤ [W/[m⋅K]]	0,056			
	Formula	λd = 0.056 + 0,0001 · ϑm			
Fire Performance and Approvals	;				
Reaction to fire	E(L) for tubes E for sheets		EN 13501-1, EN ISO 11925-2		
Use category	Type Y2 - intended for use at temperatures below 0 °C, but with no exposure to rain nor UV		EOTA TR 024		
Fire resistance of bulkhead and decks	B-15 bulkheads up to 89 mm A-60 bulkheads and decks up to 89 mm		IMO 2010 FTP code, Par 3 (IMO A.754(18))		
Passive fire protection					
Fire resistance of elements of construction	up to El 120		EN 13501-2, EN 1366-3		
Fire performance					
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flam	ies			
Resistance to water vapour					
Water vapour diffusion resistance factor	µ ≥ 7,000		EN 12086, EN 13469		
Health and environment					
Volatile organic compounds (VOC) content	Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD).		ISO 16000 Parts 3, 6 & 9		
Health aspects	Please refer to latest product Safety Datasheet (SDS).				
Emission of dangerous substances	No dangerous substances.				
Additional features	SCCP, MCCP-free				
Other technical features					
Shelf life	No shelf life.				
Storage	Cartons shall be stored horizontally. Can be stored in dry, clean rooms at normal relative he °C). Minimum temperature for transport -50 °C under cond	umidity (50 % - 70 %) and ambient temperature (0 °C - 35			

Tube – standard. Black

PR0-AX-16X006 PR0-AX-16X008 PR0-AX-19X010 PR0-AX-19X012	ArmaFlex Protect tube (1 m, outer-Ø 6 mm, 16 mm insulation thickness) ArmaFlex Protect tube (1 m, outer-Ø 8 mm, 16 mm insulation thickness) ArmaFlex Protect tube (1 m, outer-Ø 10 mm, 19 mm insulation thickness)	16 16 16 19	7612207297195	34 m 30 m
PR0-AX-19X010	m, outer-Ø 8 mm, 16 mm insulation thickness) ArmaFlex Protect tube (1 m, outer-Ø 10 mm, 19 mm insulation thickness)		7612207297201	30 m
	m, outer-Ø 10 mm, 19 mm insulation thickness)	19		
PRO-AX-19X012			7612207284515	18 m
	ArmaFlex Protect tube (1 m, outer-Ø 12 mm, 19 mm insulation thickness)	19	7612207284522	17 m
PRO-AX-19X015	ArmaFlex Protect tube (1 m, outer-Ø 15 mm, 19 mm insulation thickness)	19	7612207284539	16 m
PRO-AX-20X016	ArmaFlex Protect tube (1 m, outer-Ø 16 mm, 20 mm insulation thickness)	20	7612207284546	14 m
PRO-AX-20X018	ArmaFlex Protect tube (1 m, outer-Ø 18 mm, 20 mm insulation thickness)	20	7612207284553	13 m
PR0-AX-20X020	ArmaFlex Protect tube (1 m, outer-Ø 20 mm, 20 mm insulation thickness)	20	7612207284560	12 m
PR0-AX-20X022	ArmaFlex Protect tube (1 m, outer-Ø 22 mm, 20 mm insulation thickness)	20	7612207284577	12 m
PR0-AX-20X025	ArmaFlex Protect tube (1 m, outer-Ø 25 mm, 20 mm insulation thickness)	20	7612207284584	11 m
PRO-AX-25X028	ArmaFlex Protect tube (1 m, outer-Ø 28 mm, 25 mm insulation thickness)	25	7612207284591	9 m
PRO-AX-25X032	ArmaFlex Protect tube (1 m, outer-Ø 32 mm, 25 mm insulation thickness)	25	7612207284607	8 m
PRO-AX-25X035	ArmaFlex Protect tube (1 m, outer-Ø 35 mm, 25 mm insulation thickness)	25	7612207284614	8 m
PRO-AX-25X040	ArmaFlex Protect tube (1 m, outer-Ø 40 mm, 25 mm insulation thickness)	25	7612207284621	6 m
PR0-AX-25X042	ArmaFlex Protect tube (1 m, outer-Ø 42 mm, 25 mm insulation thickness)	25	7612207284393	6 m
PRO-AX-25X048	ArmaFlex Protect tube (1 m, outer-Ø 48 mm, 25 mm insulation thickness)	25	7612207284409	5 m
PRO-AX-25X050	ArmaFlex Protect tube (1 m, outer-Ø 50 mm, 25 mm insulation thickness)	25	7612207284416	5 m
PRO-AX-25X054	ArmaFlex Protect tube (1 m, outer-Ø 54 mm, 25 mm insulation thickness)	25	7612207284423	5 m
PRO-AX-25X060	ArmaFlex Protect tube (1 m, outer-Ø 60 mm, 25 mm insulation thickness)	25	7612207284430	4 m
PRO-AX-25X063	ArmaFlex Protect tube (1 m, outer-Ø 63 mm, 25 mm insulation thickness)	25	7612207284447	4 m
PRO-AX-25X076	ArmaFlex Protect tube (1 m, outer-Ø 76 mm, 25 mm insulation thickness)	25	7612207284454	4 m
	PR0-AX-20X016 PR0-AX-20X018 PR0-AX-20X020 PR0-AX-20X022 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-20X025 PR0-AX-25X032 PR0-AX-25X035 PR0-AX-25X040 PR0-AX-25X042 PR0-AX-25X048 PR0-AX-25X050 PR0-AX-25X054 PR0-AX-25X060 PR0-AX-25X063	m, outer-Ø 15 mm, 19 mm insulation thickness]PR0-AX-20X016ArmaFlex Protect tube (1 m, outer-Ø 16 mm, 20 mm insulation thickness]PR0-AX-20X018ArmaFlex Protect tube (1 m, outer-Ø 20 mm, 20 mm insulation thickness]PR0-AX-20X020ArmaFlex Protect tube (1 m, outer-Ø 20 mm, 20 mm insulation thickness]PR0-AX-20X022ArmaFlex Protect tube (1 m, outer-Ø 20 mm, 20 mm insulation thickness]PR0-AX-20X025ArmaFlex Protect tube (1 m, outer-Ø 25 mm, 20 mm insulation thickness]PR0-AX-25X028ArmaFlex Protect tube (1 m, outer-Ø 25 mm, 20 mm insulation thickness]PR0-AX-25X028ArmaFlex Protect tube (1 m, outer-Ø 28 mm, 25 mm insulation thickness]PR0-AX-25X035ArmaFlex Protect tube (1 m, outer-Ø 32 mm, 25 mm insulation thickness]PR0-AX-25X040ArmaFlex Protect tube (1 m, outer-Ø 40 mm, 25 mm insulation thickness]PR0-AX-25X042ArmaFlex Protect tube (1 m, outer-Ø 40 mm, 25 mm insulation thickness]PR0-AX-25X048ArmaFlex Protect tube (1 m, outer-Ø 40 mm, 25 mm insulation thickness]PR0-AX-25X054ArmaFlex Protect tube (1 m, outer-Ø 50 mm, 25 mm insulation thickness]PR0-AX-25X054ArmaFlex Protect tube (1 m, outer-Ø 54 mm, 25 mm insulation thickness]PR0-AX-25X060ArmaFlex Protect tube (1 m, outer-Ø 54 mm, 25 mm insulation thickness]PR0-AX-25X063ArmaFlex Protect tube (1 m, outer-Ø 63 mm, 25 mm insulation thickness]PR0-AX-25X064ArmaFlex Protect tube (1 m, outer-Ø 63 mm, 25 mm insulation thickness]PR0-AX-25X063ArmaFlex Protect tube (1 m, outer-Ø 63 mm, 25 mm<	m. outer-Ø 15 mn, 19 mm insulation thickness)PRO-AX-20X016ArmaFlex Protect tube [1 m. outer-Ø 18 mn, 20 mm insulation thickness]20PRO-AX-20X018ArmaFlex Protect tube [1 m. outer-Ø 20 mn, 20 mm insulation thickness]20PRO-AX-20X020ArmaFlex Protect tube [1 m. outer-Ø 22 mn, 20 mm insulation thickness]20PRO-AX-20X022ArmaFlex Protect tube [1 m. outer-Ø 22 mn, 20 mm insulation thickness]20PRO-AX-20X025ArmaFlex Protect tube [1 m. outer-Ø 28 mn, 25 mm insulation thickness]20PRO-AX-25X028ArmaFlex Protect tube [1 m. outer-Ø 28 mn, 25 mm insulation thickness]25PRO-AX-25X032ArmaFlex Protect tube [1 m. outer-Ø 28 mn, 25 mm insulation thickness]25PRO-AX-25X032ArmaFlex Protect tube [1 m. outer-Ø 28 mn, 25 mm insulation thickness]25PRO-AX-25X040ArmaFlex Protect tube [1 m. outer-Ø 42 mn, 25 mm insulation thickness]25PRO-AX-25X040ArmaFlex Protect tube [1 m. outer-Ø 42 mn, 25 mm insulation thickness]25PRO-AX-25X048ArmaFlex Protect tube [1 m. outer-Ø 42 mn, 25 mm insulation thickness]25PRO-AX-25X048ArmaFlex Protect tube [1 m. outer-Ø 42 mn, 25 mm insulation thickness]25PRO-AX-25X050ArmaFlex Protect tube [1 m. outer-Ø 43 mn, 25 mm insulation thickness]25PRO-AX-25X060ArmaFlex Protect tube [1 m. outer-Ø 44 mn, 25 mm insulation thickness]25PRO-AX-25X060ArmaFlex Protect tube [1 m. outer-Ø 46 mn, 25 mm insulation thickness]25PRO-AX-25X064ArmaFl	m, outer-0 15 mm, 19 mmPR0-AX-20X016ArmaFlex Protect tube [1 m, outer-0 14 mm, 20 mm7612207284546PR0-AX-20X018ArmaFlex Protect tube [1 m, outer-0 18 mm, 20 mm7612207284553PR0-AX-20X020ArmaFlex Protect tube [1 m, outer-0 20 mm, 20 mm7612207284560PR0-AX-20X022ArmaFlex Protect tube [1 m, outer-0 20 mm, 20 mm7612207284560PR0-AX-20X025ArmaFlex Protect tube [1 m, outer-0 20 mm, 20 mm7612207284577PR0-AX-20X025ArmaFlex Protect tube [1 m, outer-0 20 mm, 20 mm7612207284591PR0-AX-20X025ArmaFlex Protect tube [1 m, outer-0 20 mm, 20 mm7612207284591PR0-AX-25X028ArmaFlex Protect tube [1 m, outer-0 20 mm, 25 mm7612207284691PR0-AX-25X035ArmaFlex Protect tube [1 m, outer-0 20 mm, 25 mm7612207284614PR0-AX-25X040ArmaFlex Protect tube [1 m, outer-0 32 mm, 25 mm7612207284621PR0-AX-25X040ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284621PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284621PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284621PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284409PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284423PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284423PR0-AX-25X048ArmaFlex Protect tube [1 m, outer-0 40 mm, 25 mm7612207284423PR0-AX-25X048ArmaFlex Protect tube [1

270/ PRODUCT CATALOGUE

Tube – standard. Black

Pipe Ø [mm]	ltem	Description	Insulation thickness [mm]	EAN	Content [metric]
89	PR0-AX-25X089	ArmaFlex Protect tube (1 m, outer-Ø 89 mm, 25 mm insulation thickness)	25	7612207284461	4 m

Roll - standard. Black

ltem	Insulation thickness [mm]	Description	Width (m)	Length [m]	EAN	Content [metric]
PRO-AX-13MM/E	13	ArmaFlex Protect sheet (6 m x 0,5 m, 13 mm insulation thickness)	0,5	6	7612207335880	6 m²

Accessories

ltem	Description	Content [quantity]
PR0-1000-0,5B	ArmaProtect 1000 Fire protection compound (0,5 l tube)	20 piece
PRO-1000-1,0	ArmaProtect 1000 Fire protection compound (1 l pail)	27 piece
PR0-1000-2,5	ArmaProtect 1000 Fire protection compound (2,5 l pail)	12 piece
PRO-1000-5,0	ArmaProtect 1000 Fire protection compound (5 l pail)	8 piece

Adhesives and Cleaners

ltem	Description	Content [quantity]	
ADH520/0,25E	0.25 litre tins of ArmaFlex 520 adhesive with built-in brush, packed in a carton.	24 tin	
ADH520/1,0E	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	
ADH-RS850/0,5	ArmaFlex RS850 ahesive. Available in 0.5 litre cans.	6 tin	