ArmaSound® Barrier E

HIGH PERFORMANCE NOISE BARRIER FOR ARMASOUND INDUSTRIAL SYSTEMS
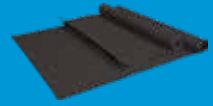
- Excellent at reducing the transmission of airborne sound

- Enhances the insertion loss performance of pipe insulation

- Flexible, easy to install

- Mean sound reduction index RW ⩾ 28 dB

- Free of lead, unrefined aromatic oils and bitumen

- Integral component of ArmaSound Industrial Systems

- Compliant to ISO 15665 Class C and Shell DEP 31.46.00.31-Gen Class D

- Satisfies acoustic class 8 according to NORSOK R-004

SHEET
Continuous sheet (rolls)

RECOMMENDED PRODUCTS
For a complete installation

ArmaFlex HT625 adhesive

ArmaFlex Cleaner

TECHNICAL DATA

High performance mass loaded sound barrier for a quieter environment.

Material type	Vinyl sound barrier mat. Thermoplastic polymer compound.
Colour	Black
Special features	The material is free of lead, unrefined aromatic oils and bitumen.
Product range*[1]	Sheets / rolls, 2, 3 and 4 mm thickness.
Applications	Flexible sheet for noise control in industrial applications - designed as an integral component of the ArmaSound Industrial Systems.
Installation	The ArmaSound® Industrial Systems installation manual should be consulted before installation. Please consult our Customer Service Centre.

Property	Value/Assessment		Standards & Remarks
Temperature Range			
Service temperature	Max service temperature Min service temperature	+65˚C +149˚F -20˚C -4˚F	Tested acc. to EN 14706, EN 14707 & EN 14304
Fire Performance & approvals			
International standards	The ArmaSound® Industrial Systems installation manual should be consulted before installation. Please consult our Customer Service Centre.		Tested according to FMVSS 302
Weight			
Mass per unit area	2 mm thickness: 4.8 to 5.5 kg/m2	0.98 to 1.13 lb/ft2	
	3 mm thickness: 7.2 to 8.25 kg/m2	1.47 to 1.69 lb/ft2	
	4 mm thickness: 9.7 to 11.0 kg/m2	1.99 to 2.25 lb/ft2	
Acoustic performance			
Acoustic insertion loss	When used as part of a system ArmaSound Barrier E complies to ISO 15665 Class C and Shell DEP 31.46.00.31-Gen Class D.		Tested according to ISO 3741 (Equivalent method ASTM E1222) Classified according to ISO 15665
Reduction of structure-borne sound transmission	2 mm thickness: Mean sound reduction index RW ⩾ 22 dB 3 mm thickness: Mean sound reduction index R ⩾ 25 dB 4 mm thickness: Mean sound reduction index RW ⩾ 28 dB		Tested according to ISO 10140-2
Mechanical properties			
Tensile strength (MD/CD)	⩾ 1.8 MPa	⩾ 261 psi	Tested acc. to ISO 37
Elongation (MD/CD)	⩾ 25 %		
Other technical features			
Health aspects	Free of lead		
Application and handling conditions*[2]	Ambient temperature: Max. relative humidity:	5 °C to +35 °C +41 ºF to +95 ºF 80%	
Adhesion and fixing*[9]	Armaflex Adhesive 520 or Adhesive HT625 shall be used for reliable adhesion. 19 mm wide stainless steel bands with wing clips (or blind rivets) shall be used for fixing and final securing. 50 mm long x 0.5 mm thick x 19 mm wide - stainless steel 'S' clips are also required on vertical piping and vessels.		
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight		
Shelf (storage) life*[3]	Max 3 years		

1. Nominal values.

2. For environmental conditions outside the given range please contact our Customer Service Centre.

3. Shelf life (maximum storage time) is limited in order to make sure that only currently manufactured products are applied on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

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. 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. However, Armacell cannot guarantee that the data is 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. Please consult our Customer Service Centre before insulating stainless steels. Installation instructions are available in our Armaflex installation manual. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

CONTINUOUS SHEET (ROLLS)

Colour - Black

Item	Nominal Thickness (mm)	Nominal Roll Length (m)	Nominal Roll Width (m)	m²/carton	
ASD-BAR-E-02 •	2	2	1.25	2.5	
ASD-BAR-E-03 •	3	2	1.25	2.5	
ASD-BAR-E-04 •	4	2	1.25	2.5	
ASD-BAR-E-04/50 •	4	40	1.25	50	

Other information and remarks
• Not a stock item
ArmaSound Barrier E is part of the ArmaSound Industrial System and should only be installed as part of it.

ArmaFlex HT625

THE HIGH TEMPERATURE ADHESIVE FOR USE WITH HT/ARMAFLEX

- Specially formulated for a wide range of temperatures and applications

- Water-tight bonding of HT/ArmaFlex® and ArmaFlex® DuoSolar insulation systems

- For operating temperatures up to +150 °C

- High performance, one component industrial grade adhesive

- Low-viscosity air-drying contact adhesive

ARMAFLEX HT625 **One-component adhesive for high temperature applications, specifically developed for HT/ArmaFlex installations but also suitable for all ArmaFlex synthetic rubber based insulation materials.**	
Material type	Contact adhesive on polychloroprene basis, free of aromatic components.
Colour	Beige
Material special info	Liquid
Applications	Application on pipes and tanks with service temperature up to +150˚C. Gluing of HT/ArmaFlex insulation materials and other ArmaFlex synthetic rubber based insulation materials (except ArmaFlex Ultima).
Special features	Specially formulated adhesive for uniform and safe seam bonding of ArmaFlex insulation materials applied on high temperature lines.
Assembly	Please observe our installation instructions/product data sheets. Application temperature: ideally +20˚C, not below 0˚C. At temperatures below +5˚C or high humidity approx above 80%), increased condensation may form on the surfaces to be glued or adhesive films. In these cases bonding is poor or impossible. This can be tested by using absorbent paper (blotting or crepe paper). Work should not be carried out on operating plant or areas exposed to strong sunlight.
Remarks	The adhesive achieves its final strength after 36 hours. Only then should plant be put into operation. Wait 36 hours before applying coatings (exception: ArmaFinish 99), adhesive tape, coverings etc.

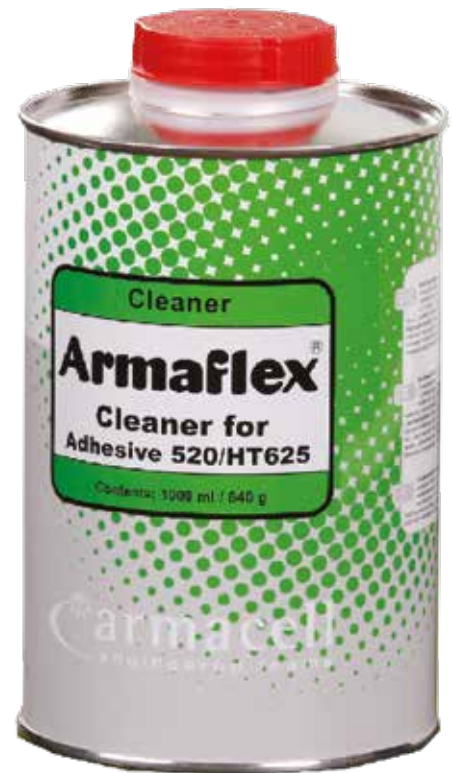| Temperature Range	
Max service temperature	+150˚C (For temperatures above +110˚C please contact our technical department)
Min service temperature	-50˚C (For temperatures below -50 ˚C please contact our technical department)
Performance	
Coverage (guidance only)	Minimum consumption with the adhesive applied to both surfaces: ArmaFlex tubes (thickness > consumption unslit > consumption slit) • 10mm > 1120m per litre > 140m per litre • 20mm > 280m per litre > 70m per litre • 30mm > 175m per litre > 45m per litre • 40mm > 130m per litre > 35m per litre Sheets • 3-4 m^2 per litre
Storage & shelf life	
	12 months in an unopened container. Do not store with expolsive substances / spontaneously combusting substances. Store as cool as possible but protected from frost. In the event of frost any gelification is reversible on warming
Preparation of surfaces	
	Clean surfaces and ArmaFlex surface with ArmaFlex Cleaner. Compatibility with bases: • Very good adhesion to metallic sufaces. • The adhesive's compatibility with colour coated sufaces needs to be tested. • Incompatible with Asphalt, bitumen and red lead (linseed oil-based)
Woking time	
Drying time	3- 5 mins
Contact adhesion	15 - 20 mins
Setting	36 hours
	The open time depends on the quantity as well as indoor climate conditions. Before operating plant the setting time needs to be allowed to lapse.
Other technical features	
Flash point	approx -26 ˚C
Expolsion limits	Lower: approx 1.1 Vol % Upper: approx 12.8 Vol %
Hazard class	Highly flammable
Ageing stability	Very good
Resistance to weathering	Very good
Recycling	Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. For details see relevant Safety Data Sheet. Packaging must be emptied of all residues. Packaging with traces of cured product can be recycled. Packaging with uncured product must be recycled into new product.
Transport classes	Depending on the type of transport

ARMAFLEX HT625 ADHESIVE

Code	Description	Pieces/carton	£/pc
ADH-HT625/0.25 •	ArmaFlex HT625 one component adhesive, 0.25 Litre can, with brush	40	21.30
ADH-HT625/0.5	ArmaFlex HT625 one component adhesive, 0.5 Litre can, with brush	12	29.35
ADH-HT625/1.0	ArmaFlex HT625 one component adhesive, 1 Litre can, with brush	12	48.53

ArmaFlex Cleaner

SURFACE CLEANER FOR ARMAFLEX INSTALLATIONS

- Ensures a clean surface before the use of ArmaFlex® Adhesives
- Removal of dirt from surfaces
- Cleaning of brushes and tools contaminated with ArmaFlex® adhesive

ARMAFLEX Cleaner Special cleaner for use with all ArmaFlex adhesives	
Colour	Clear
Material special info	Liquid
Applications	Cleaning of surfaces where ArmaFlex is to be installed.
Assembly	To ensure a perfect adhesion all contaminated sufaces, including ArmaFlex, must be cleaned. In addition the cleaner can be used to sufaces where ArmaFinish 99 is being applied.
Remarks	Can also be used to clean tools.

Technical features	
Storage & shelf life	12 months sealed in original container. Keep container tightly closed in a cool, well ventilated place. Protect from heat & direct sunlight. Do not store together with explosive substances or spontaneously combusting subtances.
Preparation of surfaces	Clean surfaces and ArmaFlex surface with ArmaFlex Cleaner. Compatibility with bases: • Very good adhesion to metallic sufaces. • The adhesive's compatibility with colour coated sufaces needs to be tested. • Incompatible with asphalt, bitumen and red lead (linseed oil-based)
Flash point	approx -20 ˚C
Explosion limits	Lower: approx 1% Vol, Upper: approx 13 % Vol. Regulation of inflammable liquids.
Recycling	Allocation of a waste code number, according to the European Waste Catalouge, should be carried out in agreement with the regional waste disposal company. For details see relevant Safety Data Sheet. Packaging must be emptied of all residues. Cans must be emptied prior to recycling. Cans containing adhesive must be recycled into new product.
Transport classes	Dependent on the transport sector

ARMAFLEX CLEANER

Code	Description	Pices/carton
CLEANER/1.0	Special cleaner for use with ArmaFlex Adhesive	4