

technical data sheet

ARIES SERIES

Torch on Waterproof Membrane

PRODUCT

Bostik Aries range is a polymer modified bitumen torch on membrane designed for waterproofing.

DESCRIPTION

Bostik Aries is an APP (Atactic Polypropylene) plastomeric type modified waterproofing membrane consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high-grade visco-elastic polymers, and inert filler. All raw materials are carefully screened for their compatibility and quality before use thus ensuring that the finished product will maintain its characteristics of elasticity and performance even at low ambient temperatures.

RECOMMENDED USES

- Residential, commercial waterproofing of roofs
- Basements
- Retaining walls
- Pits
- Tunnels
- Balconies
- Trafficable areas requiring heavy duty waterproofing

FEATURES & BENEFITS

- Flexible to -5°C
- Good UV resistance - PGR only
- Good elongation
- Good resistance to chemical agents and pollutants
- Good resistance to aggressive chemicals
- Good elastic memory
- Good mechanical characteristics
- Puncture resistant
- Will not decay
- Excellent dimensional stability
- Non-flammable
- Reduces spread of flame

PERFORMANCE PROPERTIES

AIRES V		
Characteristics	Standard	Result
Softening Point (R&B)	ASTMD36-76	143°C
Penetration at 25°C	ASTMD 5-73	27 dmm
Penetration at 60°C	ASTMD 5-73	105 dmm
Cold flexibility	UNI 8202/15	-5°C
Heat stability	UNI 8202/18	120°C
Impermeability	UNI 8202/21	Absolute
Water absorption	UNI 8202/22	1%
Water vapour permeability	UNI 8202/23	45,000 µ
Tensile strength	UNI 8202/8	
Ultimate longitudinal (md) tensile strength		310 N/5cm
Ultimate longitudinal (md) elongation		2%

Ultimate transverse (cd) tensile strength		210 N/5cm
Ultimate transverse (cd) elongation		2%
Tear resistance	UNI 8202/9	
Ultimate longitudinal (md) load		90 N
Ultimate transverse (cd) load		90 N
Thickness	UNI 8202/6	3.0/4.0 mm
Weight	UNI 8202/7	2-3-4 Kg/ m ²
Length (**)	UNI 8202/3	10 Mt
Width	UNI 8202/4	1 Mt
Surface finished	Lower (1)	Torch film
	Top (2)	Sand or talc

AIRES P		
Characteristics	Standard	Result
Softening Point (R&B)	ASTMD36-76	143°C
Penetration at 25°C	ASTMD 5-73	27 dmm
Penetration at 60°C	ASTMD 5-73	105 dmm
Cold flexibility	UNI 8202/15	-5°C
Heat stability	UNI 8202/18	120°C
Impermeability	UNI 8202/21	Absolute
Water absorption	UNI 8202/22	1%
Water vapour permeability	UNI 8202/23	45,000 µ
Tensile strength	UNI 8202/8	
Ultimate longitudinal (md) tensile strength		860 N/5cm
Ultimate longitudinal (md) elongation		39%
Ultimate transverse (cd) tensile strength		540 N/5cm
Ultimate transverse (cd) elongation		45%
Tear resistance	UNI 8202/9	
Ultimate longitudinal (md) load		130 N
Ultimate transverse (cd) load		140 N
Thickness	UNI 8202/6	3.0/4.0 mm
Weight	UNI 8202/7	3-4-5 Kg/ m ²
Length (**)	UNI 8202/3	10 Mt
Width	UNI 8202/4	1 Mt
Surface finished	Lower (1)	Torch film
	Top (2)	Sand or talc

AIRES P GR		
Characteristics	Standard	Result
Softening Point (R&B)	ASTM D 36-76	143°C
Penetration at 25°C	ASTMD 5-73	27 dmm
Penetration at 60°C	ASTMD 5-73	105 dmm
Cold flexibility	UNI 8202/15	-5(8) °C
Heat stability	UNI 8202/18	120°C
Impermeability	UNI 8202/21	Absolute
Water absorption	UNI 8202/22	1%
Water vapour	UNI 8202/23	45,000 µ

permeability		
Tensile strength	UNI 8202/8	
Ultimate longitudinal (md) tensile strength		860 N/5cm
Ultimate longitudinal (md) elongation		39%
Ultimate transverse (cd) tensile strength		540 N/5cm
Ultimate transverse (cd) elongation		45%
Tear resistance	UNI 8202/9	
Ultimate longitudinal (md) load		130 N
Ultimate transverse (cd) load		140 N
Thickness	UNI 8202/6	
Weight	UNI 8202/7	4-4.5-5 Kg/ m ²
Length (**)	UNI 8202/3	10 Mt
Width	UNI 8202/4	1 Mt
Surface finished	Lower (1)	Torch film
	Top (2)	Slate chips

Note (*) test carried out on lower surface
(**) 2mm base-sheet is also available in 20mt lengths.

All membranes are also available in 8mt. Lengths with 16mt bas-sheet

(1) lower surface: the surface which is applied to the structure being waterproofed
top surface: exposed surface towards the atmosphere

GRADES AVAILABLE

ARIES P3, P4:

- Sand Talc surface finish with non-woven polyester carrier. P3 is 3mm thickness and P4 is 4mm thickness

*ARIES V3:

- Sand Talc surface finish in natural slate grey V3 is 3mm thickness

ARIES PGR:

- Mineral top finish in natural slate grey

PEGASUS SPOT:

- Perforated Vent/Base Sheet

PACKAGING

Rolls are normally 10 metres long and 1 metre wide. The various types of ARIES products are shipped in the following quantities per pallet:

	3mm	4mm
PEGASUS	28rolls x 10mt = 280m ²	23rolls x 10mt = 230m ²
ARIES P	28rolls x 10mt = 280m ²	23rolls x 10mt = 230m ²
ARIES PGR	23rolls x 10mt = 230m ²	20rolls x 10mt = 200m ²

COVERAGE

3mm	4 kg/ m ²
4mm	4.5 kg/ m ²

APPLICATION INSTRUCTIONS

Membrane Protection

- Artes Torch On must be protected as soon as possible after installation from damages which may be caused by backfilling steel reinforcing, trade traffic, construction equipment and materials.
- A protective board such as water resistant particle boards, plywood fibre-cement or any other proprietary

protective board must be used. The protective board should be adhered with Bostik 5326 Protective Board Tape.

- Weather resistant flashing or pressure seal must be used to cover any portion of membrane left exposed, such as in upstands, parapets and top of foundation walls.
- The membrane must be thoroughly inspected to ensure there are no punctures or tears.
- All leaks should be marked and the membrane repaired when membrane is clean and dry.
- Any damage must be repaired with a patch of Artes Torch On with a minimum overlap of 75mm from any edge.

Surface preparation

Joists should be formed to shed water.

Areas where materials are to be installed using the "torch-on" method must be clean, dry, smooth and treated with prime, use Bostik primer 9222 or 9225 to ensure good bonding between the membrane and the substrate. The roof should also have appropriate falls to ensure that water will run towards the drains, and not cause pounding on the roof. All concrete must have a minimum 28 days cure.

Installation techniques

All mineral finish application where laps must occur over slate finished edges must have a 75mm wide edge that has had all slate topping removed to allow full bond to the bitumen.

All Bostik ARIES Membrane products can be installed loose laid, partially attached, or fully adhered as required by the specification or the contractor. It should be noted that this refers only to the first layer of a multi-layer system and that all subsequent layers should be installed fully adhered to the previous layer. All single layer application must be fully adhered to the substrate. All overlap joints should be formed to shed water.

PRECAUTION

- Should not be applied to damp or wet substrates
- Should not be applied to uncured concrete
- Not recommend for fully immersed application
- Pre priming with Bostik Primers 9222 or 9225 is recommended on all substrates.
- Appropriate fire safety precautions must be applied on site.
- Not compatible with tar, tar PU's or polysulphides.

P.A.T.S (Pretested Adhesion To Substrate) Programme

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

HEALTH AND SAFETY

On contact, membrane may cause irritation. Gloves and protective goggles must be worn during application and use.

- Avoid contact with skin, eyes and avoid breathing in vapour.
- Wear protective gloves when mixing or using
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do not induce vomiting. Give a glass of water.

- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- For more detailed information refer to Material Safety Data Sheet.

CLEAN-UP

For general cleaning use Bostik 9907 cleaner. Do not use solvents on skin. For removal on skin use Bostik Handi-Clean Towels.

STORAGE

When stored at or below 27°C Bostik ARIES SERIES of waterproof membrane has a shelf life of 12 months from date of shipment from Bostik's warehouse. All materials shall be stored under cover in a manner that will prevent damage preferably on pallets in an upright position and protected from excessive heat and moisture.

FIRE

The ARIES SERIES of waterproof membrane are non flammable.

ARIES SERIES

ITEM NO.	STOCK SIZE
225673	PEGASUS SPOT Black 0.8mm thickness x 20mtre length
230952	ARIES V Black 3mm thickness x 10mtre length
225665	ARIES P Black 3mm thickness x 10mtre length
225703	ARIES P Black 4mm thickness x 10mtre length
230936	ARIES PGR 4-.5kg mineral chip x 10mtre length

The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Findley Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.

ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK FINDLEY AUSTRALIA PTY LTD

FOR FURTHER INFORMATION



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