

PROVISIONAL PRODUCT DATA SHEET 2019-05-17

Autotene Asfaltico Polyester EP

SELF HEAT ADHESIVE MEMBRANE, APP AND SBS MODIFIED, FOR WATERPROOFING ROAD DECKS

DESCRIPTION

Autotene Asfaltico Polyester EP is an APP modified bituminous membrane, which bonds with the heat of the bitumen paving laid over it. It is reinforced with a single strand non-woven polyester fabric to resist the penetration of the hot asphalt. The underside has a silicone coated-film, which is easily removed during the application. The top surface is sand for a secure adhesion of the layers. Thickness: ~4,0 mm.

USES

- Waterproofing for bridges and car parks to be paved with hot bitumen or asphalt.
- Under concrete asphalt and under mastic asphalt;
- As single layer of road decks up to max 5 % slope;
- As single layer of car parks up to max 3 % slope.

CHARACTERISTICS / ADVANTAGES

- Fully bonded system;
- Quicker and cheaper due to the self heating;
- High mechanical properties;
- High elongation and flexibility.

PRODUCT INFORMATION

Composition	APP and SBS modified bitumen and tackiness inducing resins.	
Packaging	Roll size	
	Length	10,00 m
	Width	1,00 m
Appearance / Colour	Top surface	Sand
	Backing	Release liner
Shelf life	12 months from date of production	

Storage conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.		
Length	10 m -1 %		
Width	1 m -1 %		
Effective Thickness	4,0 mm ± 5 %		(EN 1849-1)
Resistance to Impact	≥ 1250 mm at +23 °C		(EN 12691- Method A)
Resistance to Static Load	20 kg		(EN 12730 - A)
Tensile Strength	Longitudinal	850 N/50 mm ± 20 %	(EN12311-1)
	Transversal	700 N/50 mm ± 20 %	
Elongation	Longitudinal	50 % ± 15 %	(EN12311-1)
	Transversal	50 % ± 15 %	
Flexibility at low Temperature	-15 °C		(EN 1109)
External Fire Performance	F roof		(EN 13501-5)
Reaction to Fire	Class E		(EN 13501-1)
Artificial Ageing	Approved		
Watertightness	60 kPa		(EN 1928-Method B)
Water Absorption	1.5 %		(EN 14223)
Ambient Air Temperature	+5 °C min. / +50 °C max.		
Relative Air Humidity	80 % max.		
Substrate Temperature	+5 °C min. / +50 °C max.		

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the bridge build-up.

The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.

APPLICATION METHOD / TOOLS

Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Priming

Apply the appropriate primer from the SikaBit® P range or Sika® Igoflex® range, at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

Alignment

Unroll, align and re-roll correctly before bonding. Each membrane must be laid parallel to each other and must be staggered by at least 1 m to avoid coinciding joints.

Overlaps

Side: 60 mm. End: 100 mm.

The upper face of the membrane has an overlap strip protected by a siliconised tape for sealing overlap seams.

Bonding

Check the alignment of the sheets before bonding. Re-align where necessary.

Unroll the first roll on the lowest height of the slope, removing the silicone coated film at the same time. The next roll is unrolled and lined up beside the membrane previously laid down, without removing the silicone coated film. Check the overlappings. The roll is re-rolled at both ends until two half length rolls are obtained. Then the silicone coated film covering the lower face is cut transversally and the film is removed, unrolling the first half roll at the same time and ensuring it is pushed with your feet. The operation is then repeated for the second half.

The thickness of asphalt paving must be at least 25 mm, whereas the hot bitumen paving must be at least 50 mm in order to absorb the thickness of the membrane overlaps and to prevent flaws in the paving above.

Detailing

All details such as internal and external corners, up-stands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing (not bonding) must follow the recommended guidelines and good practice for torch-applied membranes.

Protection

The membrane must be protected from damage during any ongoing site activities.

IMPORTANT CONSIDERATIONS

- Laying the membrane at temperatures $\leq +5$ °C is permitted if temporary heating is provided using suitable heat producing equipment to heat the substrate to $\geq +5$ °C.
- Laying the membrane at temperatures $\leq +10$ °C and / or in high humidity conditions, use suitable heat producing equipment to heat and / or dry the substrate. Pay attention if there is no condensation formed on the laying surface.
- At low temperatures, take care unrolling to avoid damaging the membrane.
- When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean substrates / surfaces.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w)

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika Services AG
Tüffenwies 16
8048 Zürich
Tel: +41 58 436 4040
www.sika.com



PROVISIONAL PRODUCT DATA SHEET 2019-05-17
Autotene Asfaltico Polyester EP
April 2019, Version 01.0
020704410020000015

PROVISIONAL_AutoteneAsfalticoPolyesterEP-en-(04-2019)-1.pdf

