

# PROVISIONAL PRODUCT DATA SHEET 2019-05-17

## Defend Antiroot 10 Polyester

ANTI-ROOT PLASTOMERIC BITUMINOUS MEMBRANE, FLEXIBLE AT -10 °C

### DESCRIPTION

Defend Antiroot 10 Polyester is an APP modified bituminous membrane, torch applied, with an anti root additive specially designed to be used in directly contact with the soil. It is reinforced with a heavy and dimensionally stable non-woven polyester and flexible at -10 °C. The underside has a polyethylene burn-off film for easy application and the top surface finish is a polyethylene film. Thickness: ~4,0 mm.

### USES

Waterproofing membrane for:

- Flat roofs under protective layers or ballast
- Roof gardens
- Sunken roof landscaping
- Gravel covered roofs
- Roof garden final waterproofing layer in contact with soil

### CHARACTERISTICS / ADVANTAGES

- Resistant to humic acids and fertilisers
- Can be applied in contact with soil or where there is a risk of the membrane being damaged by roots
- Good watertightness
- High tensile strength
- High elongation and cold flexibility
- Good resistance to impact
- Easy to install by torching method
- Choice of primers to suit substrate and weather conditions

### APPROVALS / CERTIFICATES

- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing

## PRODUCT INFORMATION

<b>Composition</b>	APP modified bitumen with anti-root additive	
<b>Packaging</b>	Roll size	
	Length	10,00 m
	Width	1,00 m
<b>Appearance / Colour</b>	Top surface	Polyethylene film
	Backing	Polyethylene film
<b>Shelf life</b>	36 months from date of production	
<b>Storage conditions</b>	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.	
<b>Length</b>	10 m -1 %	
<b>Width</b>	1 m -1 %	
<b>Effective Thickness</b>	4,0 mm ± 5 %	(EN 1849-1)
<b>Resistance to Impact</b>	≥ 1250 mm at +23 °C	(EN 12691- Method A)
<b>Tensile Strength</b>	Longitudinal	400 N/50 mm ± 20 % (EN12311-1)
	Transversal	300 N/50 mm ± 20 %
<b>Elongation</b>	Longitudinal	40 % ± 15 % (EN12311-1)
	Transversal	40 % ± 15 %
<b>Flexibility at low Temperature</b>	-10 °C	(EN 1109)
<b>External Fire Performance</b>	F roof	(EN 13501-5)
<b>Reaction to Fire</b>	Class E	(EN 13501-1)
<b>Flow Resistance</b>	≥ 120 °C	(EN 1110)
<b>Artificial Ageing</b>	Approved	
<b>Watertightness</b>	60 kPa	(EN 1928-Method B)
<b>Ambient Air Temperature</b>	+5 °C min. / +50 °C max.	
<b>Relative Air Humidity</b>	80 % max.	
<b>Substrate Temperature</b>	+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 roof build-up. Complete roof system must be designed and secured against wind uplift loadings. 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 or Sika® Igliflex® P 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 torching.

#### Overlaps

Side: 100 mm. End: 150 mm.

#### Torching

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick.

Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

#### **Detailing**

All details such as internal and external corners, up-stands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing 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**

- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- Do not over-torch the membrane otherwise the polyester reinforcement (which melts at 260 °C) will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- 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](http://www.sika.com)



PROVISIONAL PRODUCT DATA SHEET 2019-05-17  
Defend Antirroot 10 Polyester  
April 2019, Version 01.0  
020704410010000122

PROVISIONAL\_DefendAntirroot10Polyester-en-(04-2019)-1.pdf

