BUILDING TRUST

PRODUCT DATA SHEET

Defend Antiroot P 10 4 mm

Anti-root plastomeric bituminous membrane, flexible at -10 °C

DESCRIPTION

Defend Antiroot P 10 4 mm is an APP modified bituminous, torch applied, waterproofing membrane containing an anti-root additive, which allow the membrane to be in direct contact with the soil. It is reinforced with a dimensionally stable non-woven polyester inlay stabilized with fibreglass. The underside has a polyethylene burn-off film for easy application.

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
- Basements

CHARACTERISTICS / ADVANTAGES

- Thickness: ~4,0 mm
- Top surface finishing: polyethylene film
- Good flexibility at -10°C
- Resistant to humic acids and fertilizers
- Resistant to damage by plant roots
- Good watertightness
- High tensile strength
- High elongation
- Good resistance to impact
- Easy to install by torching method
- Choice of primers to suit substrate and weather conditions

APPROVALS / STANDARDS

- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing
- CE marking and Declaration of Performance to EN 13969 - Damp proofing for buildings, including basement tanking

PRODUCT INFORMATION

Chemical Base	APP modified bitumen with anti-root additive	
Packaging	Roll size	
	Length	10,00 m
	Width	1,00 m
Appearance / Colour	Top surface	Polyethylene film
	Backing	Polyethylene film
Shelf Life	36 months from date of production	
Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions, away from the elements and at temperatures between +5 °C and +30 °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.	

Product Declaration	EN 13707 - Reinforced bitumen sheets for roof waterproofing EN 13969 - Dump proofing for buildings, including basement tanking
Length	10 m - 1 %
Width	1 m - 1 %
Thickness	4,0 mm ± 0,2 mm (EN 1849-1)

TECHNICAL INFORMATION

Tensile Strength	Longitudinal Transversal	400 N/50 mm ± 20 % 300 N/50 mm ± 20 %	(EN12311-1)
Elongation	Longitudinal Transversal	35 % ± 15 % v.a. 40 % ± 15 % v.a.	(EN 12311-1)
External Fire Performance	F roof		(EN 13501 - 5)
Reaction to Fire	Class E		(EN 13501 - 1)
Water Tightness	60 kPa		(EN 1928-Method B)
Flow Resistance	≥ 110 °C		(EN 1110)
Flexibility at low temperature	≤ -10°C		(EN 1109)

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +50 °C max.
Relative Air Humidity	80 % max.
Substrate Temperature	+5 °C min. / +50 °C max.

BASIS OF PRODUCT DATA

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

LIMITATIONS

- 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

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 this 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)

APPLICATION INSTRUCTIONS

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, 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 Sika® Igolflex® P range, or similar, 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, upstands, 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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

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