

PRODUCT DATA SHEET

SikaRoof® Vent3® Excel 190

Breathable membrane for use in pitched roof applications.

PRODUCT DESCRIPTION

The SikaRoof® Vent3® Excel 190 Breather Membrane is a triple-layer roofing underlay for cold and warm pitched roofs. Made from spun-bonded polypropylene with a micro-porous film, it ensures moisture permeability and water vapour resistance. Suitable for fully supported or unsupported tiled and slated roofs.

CHARACTERISTICS / ADVANTAGES

- Vapour permeable
- Hydrophobic properties
- Exceptional nail tear resistance and tensile strength

USES

- Warm and cold roof applications
- Supported and unsupported roof applications
- Ventilated and unventilated roof applications

PRODUCT INFORMATION

Packaging	Polythene bagging.	
Colour	Printed Light Blue upper.	
Shelf Life	24 months - When stored upright in a dry, shaded environment and protected from direct sunlight and damage.	
Storage Conditions	Do not drag rolls across rough surfaces, always lift. Rolls should be stored upright on a dry surface. During storage exposure to direct sunlight is to be avoided.	
Dimensions	1m x 50m	
Felt weight	190 g (+/- 10 %)	
Tensile Strength	(378 ± 76) N/50 mm	MD
	(229 ± 60) N/50 mm	CD
Elongation	(62 ± 19) %	MD
	(92 ± 27) %	CD
Tear Strength	(246 ± 72) N	MD
	(262 ± 64) N	CD
Reaction to Fire	Class E	

UV Exposure	No more than 3 months UV exposure advised.
Diffusion Resistance to Water Vapour	0.04 m
Resistance to Water Penetration	W1

VALUE BASE

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

- It should not be considered a primary waterproofing layer
- Whilst the product is UV stable for up to 3 months exposure, good roofing practice dictates that the primary waterproofing finish (e.g. tiles, slates etc.) be applied as soon as practically possible.
- Under slating membranes should not be considered as temporary weatherproof protection for occupied buildings or where internal fitting out is taking place. Additional protection should be afforded in these circumstances.

ECOLOGY, HEALTH AND SAFETY

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).

APPLICATION INSTRUCTIONS

SikaRoof® Vent3® Excel 190 should be unrolled across the roof, starting at the eaves and working up the roof, it is laid coloured (printed) side up. With normal slates and tiles the membrane can be installed draped 10 mm into the void between the rafters, it can then be secured with the tiling battens. This will leave sufficient space between the and the tiles/slates for drainage and ventilation. When installed as a fully supported system, is laid over the support and secured with counter battens, alternatively the membrane can be installed over counter battens and fixed at 200 mm centres using corrosion resistant straps or galvanised clout nails. Tiling battens are fixed to the counter battens leaving a minimum airspace of 25 mm between the roof sheet underlay and the tiles for drainage and ventilation.

When installing breathable roofing felt in a cold roof application, it is recommended to provide ventilation at the ridge level to allow effective airflow and prevent condensation buildup.

The breathable membrane helps reduce moisture accumulation within the roofing structure, but additional ventilation at the ridge enhances this function by allowing warm, moist air to escape efficiently. This setup promotes a continuous air exchange, which is essential in cold roof designs to maintain roof health and prevent issues related to trapped moisture, such as mould or timber decay. Ensure all ventilation openings are clear and unobstructed for optimal performance.

In unventilated roof systems vapour control measures are required below the insulation layer to restrict the flow of moist air from within the inhabited building into the roof space. Additionally, the building below should be ventilated in accordance with the Building Regulations with water tanks sealed.

Abutment flashing should be wedged into a mortar joint 25 mm deep and at least 150 mm above the level of the slates or tiles. The underlay should be turned up behind the flashing at least 100 mm to prevent rain and snow being blown into the roof-space. Lap joints in the membrane should be generally in accordance with NHBC guidance.

At the eaves felt support trays should be installed to prevent ponding behind the fascia. The membrane should be laid over the support tray stopping short of the roof tile tails to prevent UV degradation of the underlay.

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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