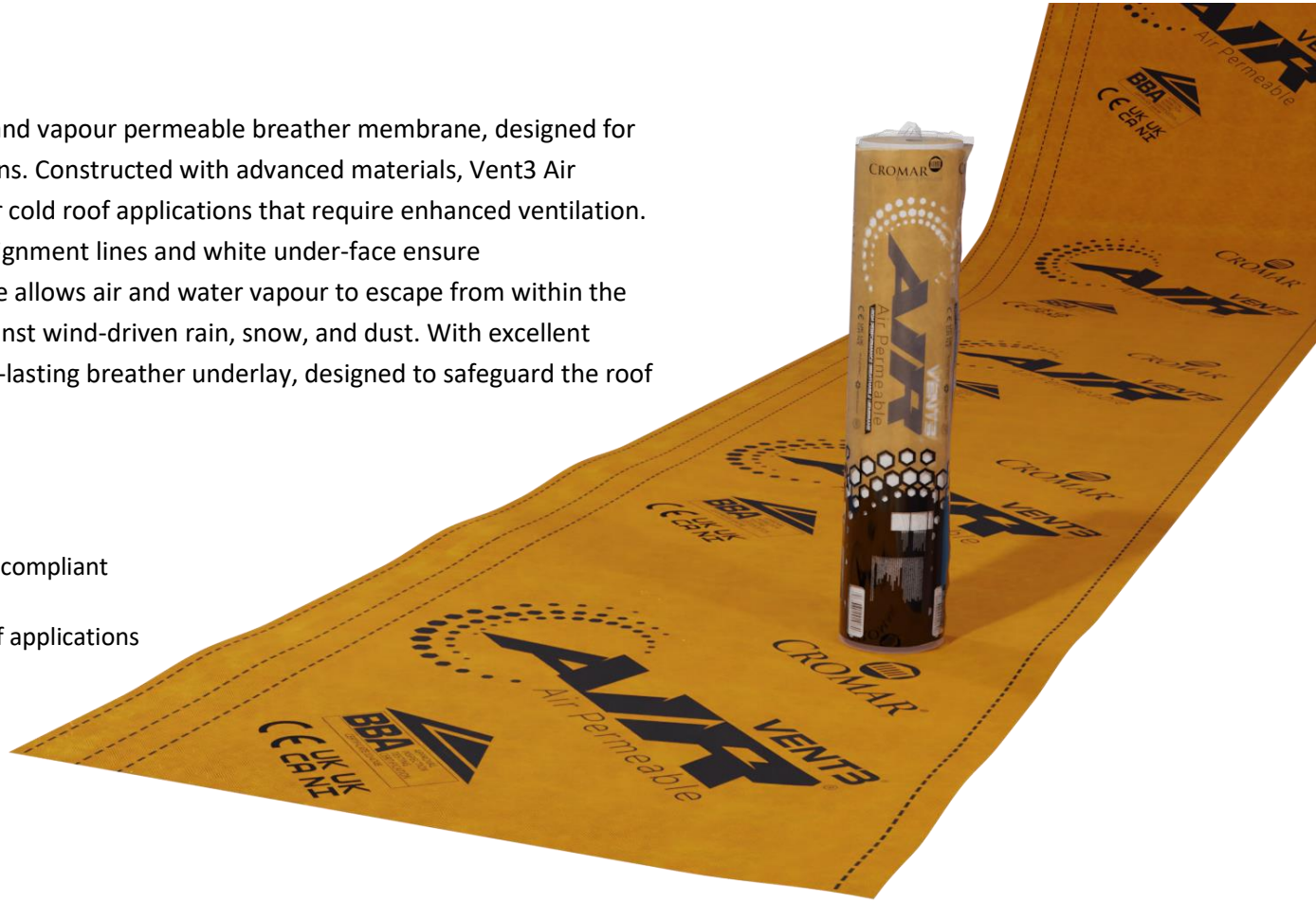
TECHNICAL DATASHEET - Vent3 Air® – Breathable Membrane



Description

The Vent3 Air membrane is a high-performance, air and vapour permeable breather membrane, designed for effective moisture management in roofing applications. Constructed with advanced materials, Vent3 Air provides exceptional permeability, making it ideal for cold roof applications that require enhanced ventilation. Its Orange, printed upper surface with pre-printed alignment lines and white under-face ensure straightforward installation. The Vent3 Air membrane allows air and water vapour to escape from within the roof structure while delivering robust protection against wind-driven rain, snow, and dust. With excellent tensile and tear strength, Vent3 Air is a durable, long-lasting breather underlay, designed to safeguard the roof construction for its entire lifespan.

Benefits

- BBA certified
- Independently tested and BS 5534:2014+A2:2018 compliant
- Conforms with BS 5250 guidelines
- Meet NHBC guidance for underlays in pitched roof applications
- Air Permeability exceeds EN 12114
- Excellent tensile and tear strength
- Waterproof properties
- Long term durability
- UV Stable (3 months exposure)
- Warm and Cold Roof Application

Cromar Building Products Ltd, Units 3,4,5 Northside Industrial Estate, Whitley Bridge, North Yorkshire, DN14 0GH
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BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 10/4748

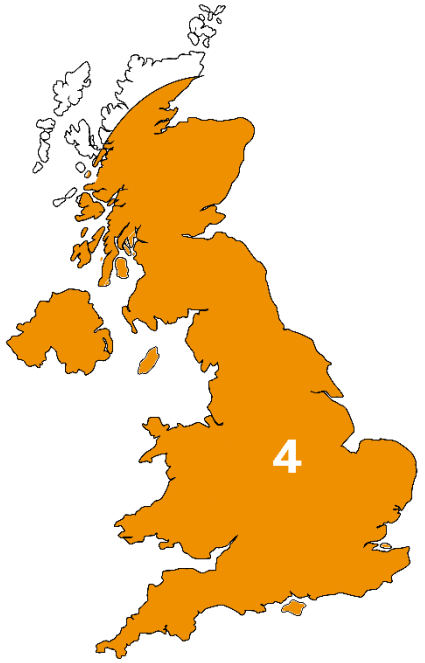
PRODUCT DATA

Product	Weight	Air Permeability	Flame Retardancy	Size	Colour	Nail Tear Strength	Tensile Strength	Elongation %	Water Vapour Transmission (sd) m	Water Vapour Resistance MNs/G	BS 5534 Zones Compliance	UV resistance	Roll weight Kg	Pallet quantity
Vent3 AIR®	170gsm	Exceeds BS EN 12114	Class E EN 11925-2	1m x 50m	Orange	210 N 210 N	330N/50mm 270N/50mm	55 MD 65 XD	W1	<0.03	BS 5534:2014 +A1:2018	3 months	8.5	30

BS 5534:2014+A2:2018 Wind Uplift

Each individual Vent3® underlay product has the batten gauge & zonal application for wind uplift printed on this packaging. The manufacturer's declared values are available from the Cromar website and the BBA certificate. The Vent3® underlays may be used at any batten gauge in all wind zones when laid over nominally air-tight sheet sarking for example OSB, plywood, chipboard and insulation for warm-roof design. They may also be used in applications where slates are nailed directly onto sarking boards. Sarking boards, such as square-edged butt jointed planks, are not considered to be air-tight and the underlay is treated as unsupported.

	345mm Battened Lap	250mm Battened Lap	345mm Taped Lap	250mm Taped Lap
Vent3 Air	1 – 4	1 - 5	1 - 5	1 - 5



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Application

Vent3 Air must be installed in line with BS 5534:2014+A2:2018 and Cromar's specific installation guidance.

Installation Guidelines

Vent3 Air serves as a secondary barrier against wind-driven rain and snow. It should not be considered a primary waterproofing layer. Though UV-stable for up to 3 months, good roofing practice recommends applying the primary waterproofing finish (such as tiles or slates) as soon as possible after membrane installation. This membrane is not intended to serve as temporary weatherproofing for occupied buildings or where internal work is underway. Additional protection should be installed in these situations to prevent moisture ingress.

Begin installation at the eaves, unrolling the Vent3 Air membrane with the Orange (printed) side facing up, and work upwards along the roof. For normal slates and tiles, install the membrane with a slight drape of 10mm to 15mm into the void between the rafters to allow drainage and ventilation. Secure the membrane with tiling battens.

For a fully supported system, install Vent3 Air over the support and secure it with counter battens. Alternatively, place the membrane over counter battens and fix at 200mm centers using corrosion-resistant straps or galvanized clout nails. Tiling battens should be attached to the counter battens, leaving a minimum 25mm air gap between the roof sheet underlay and the tiles for proper drainage and ventilation.

According to NHBC guidelines for LR air permeable breather membranes, additional ventilation is not required for the installation of Vent3 Air. This means that in unventilated roof systems, the membrane can effectively allow water vapour to escape without the need for supplementary ventilation measures. It is still important to ensure that the building below is ventilated in accordance with Building Regulations and that moisture sources, such as water tanks, are properly sealed.

At abutments, wedge the flashing into a mortar joint at least 25mm deep and 150mm above the slates or tiles. Turn up the Vent3 Air membrane at least 100mm behind the flashing to prevent moisture ingress from rain or snow.

Lap joints should follow recommended guidelines, with 600mm reinforcing strips at hips, ridges, and valleys for added strength.

Install Cromar felt support trays at the eaves to prevent ponding behind the fascia. Lay the Vent3 Air membrane over the support tray, ensuring it stops short of the tile tails to avoid UV degradation.

By following these guidelines, Vent3 Air will serve as an effective and durable breather underlay, enhancing roof ventilation and moisture control while providing reliable secondary protection against weather elements.

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Notes

1. As with all breather membranes of this type, contact with solvents or wet timber preservatives can cause localised water penetration to occur, prior to the main weatherproofing being installed.
2. In accordance with BS 5534:2014+A2:2018 where a roof underlay or breather membrane is to be laid over open rafters, a nominal drape of 10mm between the rafters is desirable to guide any rainwater penetrating the main roof finish away from the rafters to the drainage point. (The membrane must not be pulled tight against the underside of the tiling battens.)
3. Vent3 Air should never be considered as being a total protection against wind-blown rain and high winds.

Limitations

- It is the user's responsibility to ensure suitability for use. Safety Data available on request.
- Read the label carefully for essential health and safety information prior to use.
- Health & Safety Care should always be taken when working at height. The safety of all working in construction is critical, above and below. Cromar Vent3 breather membranes should not be used as part of a fall arrest system.
- Exposure – Vent3 breather membranes may remain unprotected for up to 3 months, but recommended practice is to install tiles or slates as soon as possible, to minimise risk of water ingress through unsealed overlaps, edges and nail holes after any rain, in line with the guidance from the NHBC and the BBA we recommend the felt be covered in just a few days.

Further Information:

In the event of further queries or problems concerning the use of this product, please contact the address below, e-mail sales@cromar.uk.com.

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