



INTELLIGENT MEMBRANES

PASSIVE PURPLE PRODUCT SHEET | 2020



AIRTIGHT VAPOUR CONTROL MEMBRANE

DESCRIPTION

PASSIVE PURPLE® is a Passivhaus/BBA Certified VOC FREE Intelligent Liquid Vapour Control Membrane that is applied with an airless sprayer or roller that dries to an airtight flexible coating that has excellent adhesion on different surfaces such as concrete, brick and wood. It is also classed as a Radon Barrier.

Field of use: » Floor/wall connections » Wall/ceiling connections » Entire walls » Wall/wall connections » Vertical and horizontal joints. See book of detail

PRIOR TO STARTING THE APPLICATION:

» Remove salt efflorescence, dust, loose parts and standing water from the surface. » Apply on a closed surface; if necessary, fill holes and joints with a fast setting cement based product or polyurethane foam; Apply PASSIVE PURPLE® BRUSH on holes and joints < 5mm. » Do not apply PASSIVE PURPLE at T < 5°C (also substrate temperature) » Application on humid surfaces is allowed, but remove standing water.

APPLICATION:

» PASSIVE PURPLE® is ready-to-use; mix with hand mixer before application. Do not dilute with water or solvents. » Apply with an airless paint spray device. - Kindly contact us for more information: info@intelligentmembranes.co.uk » Cleaning airless device: with water. » Apply PASSIVE PURPLE® in two layers, at a total consumption of 0,5 - 1 kg/m². » Complete drying is requested prior to applying another product on PASSIVE PURPLE® (such as plaster). Drying time may vary and depends on local conditions and condition of the substrate..

good to know

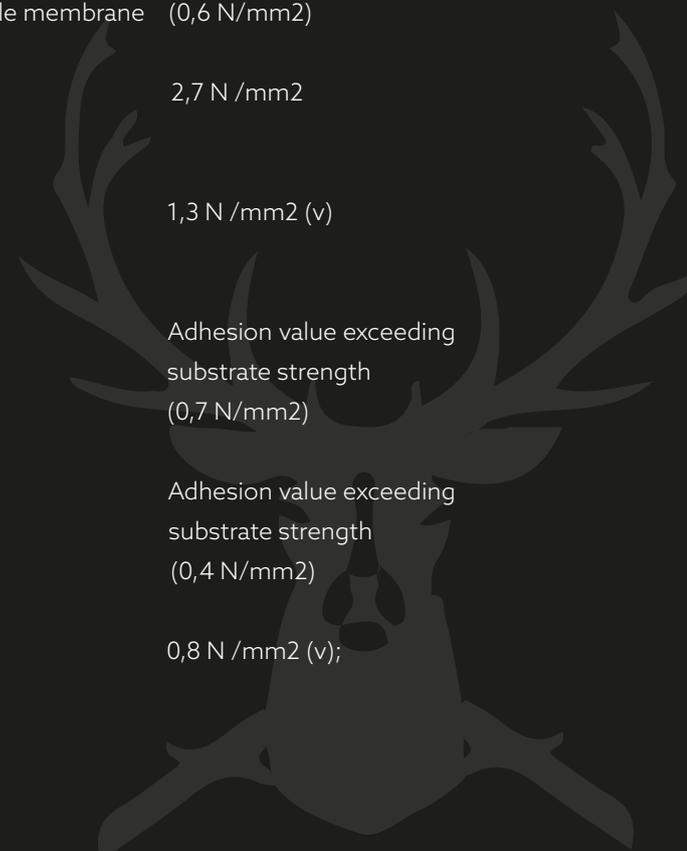
CHARACTERISTICS & CERTIFICATIONS

TEST INSTITUTE	TEST	NORM	VALUE
	Airtightness floor/wall connection after simulated ageing of the structure	NBN EN 12114:2000 (standard: eurocode 7)	0,05 M ³ /H.M (50bar)
	Airtightness of walls made of concrete bricks	A+: < 0,10 (Standard according PassivHaus)	0,04 M ³ /H.M ²
	Damp diffusion resistance factor	EN ISO 12572 (2001)	20 – 35 m (0,3 – 0,5 mm dry film thickness)(*) *)calculated value based on μ : 76000
	Sd value humidity variable	EN ISO 12572 (2001)	0,8 - 40 m
	g-value	EN ISO 12572 (2001)	100 – 175 MN.s/g (0,3 – 0,5 mm dry film thickness) *)calculated value based on μ : 76000
	g-value humidity variable	EN ISO 12572 (2001)	4 – 200 MN.s/g
	Resistance to fatigue movement	EOTA TR008:2004	No cracking or delamination
	Elongation	BS EN ISO 527-3	350,5% (average value) 325,2% (average value after ageing)



CHARACTERISTICS & CERTIFICATIONS

TEST INSTITUTE	TEST	NORM	VALUE
	Adhesion on red brick		Dry surface: 1,5 N/mm ² Moist surface: 1,4 N/mm ² (v)
	Adhesion on concrete brick		Dry surface: 1,9 N /mm ² Moist surface: 1,6 N/mm ² (v)
	Adhesion on calcium silicate stone (Ytong) (dry – moist surface)		Adhesion value exceeding substrate strength (0,7 – 0,8 N/mm ²)
	Adhesion on gypsum block (Isolava)		1,6 N /mm ²
	Adhesion on OSB wood	ISO4624 (2002)	Adhesion value exceeding substrate strength (0,6 N/mm ²)
	Adhesion on multiplex wood	Values after artificial ageing of sample membrane	Adhesion value exceeding substrate strength (0,6 N/mm ²)
	Adhesion on steel		2,7 N /mm ²
	Adhesion on EPDM (« Tridex »)		1,3 N /mm ² (v)
	Adhesion on roofing		Adhesion value exceeding substrate strength (0,7 N/mm ²)
	Adhesion of sprayed plaster (knauf MP75) on PASSIVE PURPLE		Adhesion value exceeding substrate strength (0,4 N/mm ²)
	Adhesion of thin plaster (ALLTEC) on PASSIVE PURPLE		0,8 N /mm ² (v);



CHARACTERISTICS & CERTIFICATIONS

TEST INSTITUTE	TEST	NORM	VALUE
	Euroclassification – Fire	EN13501 -1	C-S1,D0
	Free from VOC, TVOC, carcinogenics, ammonia, formaldehyde	EN ISO 16000-9/6 EN 717 -1 EN ISO 16000-28	
	Methane permeability	ISO 15105	62 – 75 cm ³ (STP) ·mm·m ⁻² ·day ⁻¹ ·atm ⁻¹
	Radon diffusioncoefficient	K124/02/95	3,3 x 10 ⁻¹²

CALCULATION SD-VALUE* (equivalent air layer thickness) of PASSIVE PURPLE®, vapour barrier and airtight coating

Sprayed wet film thickness (mm)	0,25	0,5	0,75	1
Density(kg/litre)	1,2	1,2	1,2	1,2
Consumption (kg/m ²)	0,3	0,6	0,9	1,2
Solid content	0,564	0,564	0,564	0,564
Dry film thickness (mm)	0,141	0,282	0,423	0,564
Water vapour resistance factor (μ)	76584	76584	76584	76584
Sd-value (dry film thickness in meter * μvalue) in meter	10,79834	21,59668	32,39503	43,19337
	4	8	2	6

U-value according to BBRI-certificate determination vapour permeability properties DE 651 XK 065 with standard NBN AND ISO 12572

EXTRA INFORMATION

STORAGE

Storage: 5 – 20 °C; stored dry, out of direct sunlight; conservation: 12 months from date of production, original unopened packaging.

PACKAGING

10kg pails – pallet : 44 x 10 kg

SAFETY

Consult the safety data sheet prior to application. Always work in well-ventilated areas, Avoid skin contact when product is in wet condition. Requested to wear eye protection, mouth mask, gloves and safety wear during application.

EXTRA

- » Average consumption: 0,5 - 1 kg/m² (indicative, depending on substrate)
- » Density: +/- 1,2 kg / litre
- » Temperature resistance after drying: -40°C – 90°C
- » Available colours: purple (drying to airtight purple) & white (drying to airtight white)
- » Indicative drying time: 0,5 to 24 hours (depending on substrate temperature, air humidity, applied layer thickness and ventilation).

COVERAGE

- » 10-16m² coverage per tub.
- » 108-173 ft² coverage per tub.



▶ **DATE OF THIS EDITION: 12/11/2020**

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