



INTELLIGENT MEMBRANES

PASSIVE PURPLE PRODUCT SHEET | 2021



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.

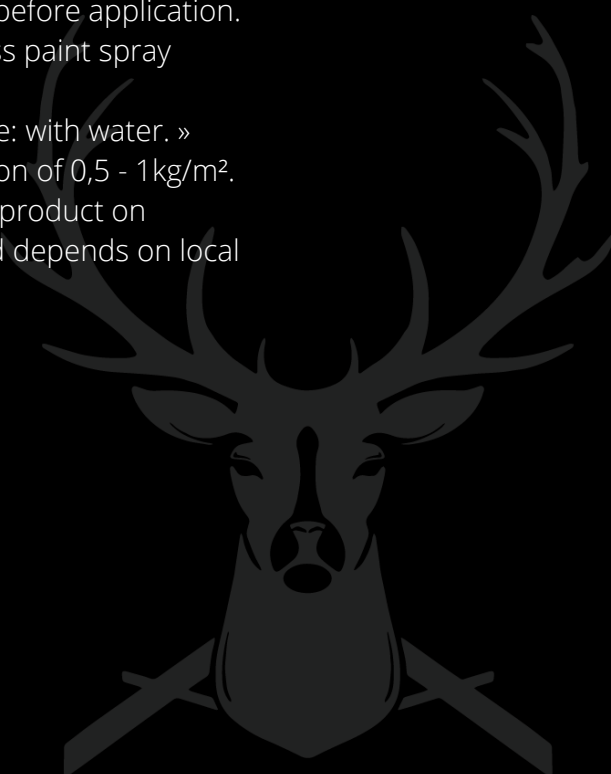
Field of use: » Floor/wall connections » Wall/ceiling connections » Entire walls » Wall/wall connections » Vertical and horizontal joints. See book of detail.

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 $T < 5^{\circ}\text{C}$ (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 - 1kg/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.








PRODUCT CHARACTERISTICS AND 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 u: 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 u: 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 aging)

PRODUCT CHARACTERISTICS AND 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 black (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 on 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);

PRODUCT CHARACTERISTICS AND CERTIFICATIONS

TEST INSTITUTE	TEST	NORM	VALUE
	IEuroclassification - fire	EN13501-1	C-S1,D0
	Free from VOC, TVOC, carcinogenic, ammonia, formaldehyde	EN ISO 16000-9/6 EN 717-1 EN ISO 16000-28	
	Methane permeability	ISO 15105	62 - 75 CM3 (STP) 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/m2)	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 (u)	76584	76584	76584	76584
Sd-value (dry film thickness in meter *uvalue) in meter	10,798344	21,596688	32,395032	43,193376

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 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



PASSIVE PURPLE DO'S AND DONT'S

DO

- Do mix before use
- Do use PPE according to the nature of work
- Do before use a new/different product completely drain or bleed and flush lines of equipment from previous products
- Do clean up any spills in the area immediately to avoid slippery surface
- Do use the drip tray when possible
- Do use correct tip size and pressure suited to the person spraying the product on the product itself
- Do store in a safe place away from freezing temperatures/extreme heats
- Do recycle or clean and re-use empty tubs
- Do use a wet film gauge to measure the thickness of the product
- Do mask any surface areas you do not want to get hit from potential overspray
- Do always follow H&S guidelines
- Do always know where on site accident kit is kept in case of emergency
- Do use a wet film gauge to verify the total consumption of 0,5-1kg/m² (0,500-1000 microns)
- Do always read the product sheet for further instructions and guidance before application
- Do seal tub back up after use

DON'T

- Do not use under 5 degrees or temperatures expecting to drop below 5 degrees or freezing point within the next 24-48 hours
- Do not use in the rain or when rain is expected within the next 24-48 hours
- Do not mix/dilute with water or solvents
- Do not consume
- Do not use for anything else other then its intended purpose of an Airtightness and vapour control barrier i.e. Do not use as a waterproofing/tanking
- Do not mix with any other products
- Do not spray LESS than the guided amount of at least 0,5kg/m² 0.500 microns verify using a wet film gauge
- Do not keep outside in cold temperatures/always store in a safe place
- Do not use as a protection for windows (its permanent)
- Do not differ from the product sheets or data advice

PLEASE CONTACT INTELLIGENT MEMBRANES OR REFER TO THE PRODUCT SHEET IF UNSURE ABOUT ANYTHING.

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► DATE OF THIS EDITION: 12/11/2021

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