

BLOWERPROOF® LIQUID

Paint-on airtight membrane and vapour control.

Certified by Passive House Institute and BBA. Also used as radon barrier.



DESCRIPTION & USE

BLOWERPROOF® LIQUID dries to form a flexible airtight membrane and vapour barrier with strong adhesion to the substrate also acts as a radon barrier. BLOWERPROOF® LIQUID is spray, roller or brush applied. Suitable substrates include concrete, masonry, bricks, blocks, plaster/render, engineered wooden boards, tapes, membranes, aluminium, steel and PVC. BLOWERPROOF® LIQUID is a water-based dispersion without organic solvents. Dried material can be disposed of as non-hazardous waste.

BLOWERPROOF® LIQUID is applied for the permanent airtightness in the following applications:

- Floor/wall, wall/wall and wall/ceiling connections or complete walls.
- walls and floors, curtain walls
- Wall/roof connections (steel deck)

BLOWERPROOF® LIQUID also functions as an intelligent vapour control, and is also suitable to be applied directly onto insulation materials. A detailed Sd and G value table is available for condensation risk analysis. BLOWERPROOF® LIQUID is applied (in substructures) as radon barrier.

ADVANTAGES

- BLOWERPROOF® LIQUID is certified as permanent airtightness, intelligent vapour control and radon barrier by the BBA and the Passive House Institute.
- The intelligent vapour control characteristic of BLOWERPROOF® LIQUID prevents moisture migration into the applied surface (Sd: 20 - 30) however allows excess humidity to escape. (BBA)

APPLICATION METHOD






PREPARATION

- Standing water, dust and loose particles should be removed with a vacuum cleaner.
- Fill holes and gaps bigger than 5mm with BLOWERPROOF® Non-Shrink Gap-Filling Mortar or non-shrink polyurethane foam. When using polyurethane foam, cut off excess after hardening. Fill gaps and holes < 5mm with BLOWERPROOF® LIQUID BRUSH which is the thixotropic variant.
- Apply Primer 43 on those mineral surfaces which are highly absorbent or which have low water resistance; on new plasterboards, on dusty surfaces or when applying in temperatures > 25°C.

APPLICATION METHOD

- Mix BLOWERPROOF® LIQUID to a homogeneous consistency with a handheld paddle mixer at low speed.
- Apply BLOWERPROOF® LIQUID in two layers; total minimum consumption should be 0.5kg/m² or about 500 microns to be verified with a thickness gauge; maximum thickness per layer: 2000 micron (2mm). BLOWERPROOF® LIQUID can be applied both on dry and humid (damp) surfaces. Apply the second layer after the first has fully dried. To avoid risk of condensation, apply on the warm side of the insulation.
- Apply using an airless spray machine, long-haired roller suitable for water-based acrylic paints or flat synthetic bristle paintbrush. When using an airless spray machine, spray at 20 to 30cm from the surface at a 90° angle to the surface to minimize overspray. Spray tip: 517; Pressure: 120bar.
- Apply over an area sufficient to overlap finish plaster / render or membranes by 50mm and in all cases a minimum of 50mm above DPC at ground level.
- During the drying process, BLOWERPROOF® LIQUID changes colour from blue to black; when completely black, the product is cured and is ready to accept a finish such as flexible paint, spray plaster/render or dot & dab plasterboard. Insulation boards can be fixed directly onto BLOWERPROOF® LIQUID using glue or mechanical anchors. (*). (*):BLOWERPROOF® LIQUID is also available in white which does not show a colour change when drying. Contact the manufacturer / local importer for specific advice depending finishes or installing insulation boards on Blowerproof®.

CHARACTERISTICS

INSTITUTE	TEST	STANDARD	VALUE/RESULT
	System certification: airtightness of building connections.	Passive House	PASS: COMPONENT A AIR PERMEABILITY: 0,03 m ³ /(hm ²)
	Product certification: Blowerproof® Liquid serving as permanent airtightness, vapour barrier and radon barrier.	BBA	PASS
	Durability: service life equal to that of the element onto which it is installed		
	Damp diffusion resistance factor (Sd) <i>(Detailed Sd and G value table is available for the purpose of condensation risk analysis).</i>	EN ISO 12572	μ-value: 76584 (BBRI report) - Sd: 22,9 (consumption: 0,5 kg/m ²) - Sd: 34,4 (consumption: 0,75kg/m ²)
	Intelligent vapour control: variable damp resistance	BBA	Sd: 0,8 – 40 meter G: 4 – 200 M.N. s/g
	Radon resistance	K124/02/95	3,3 x 10 ⁻¹²
	Resistance to fatigue movement	EOTA TR008:2004	PASS
	Elongation after ageing	BS EN ISO 527-3	350,5%
	Adhesion of universal bonding compound on Blowerproof® Liquid (Siniat)	BS EN 14496: 2017	PASS
	Watertightness	EN 14891	PASS
	Adhesion on red brick (dry - moist)	ISO4624 (2002) <i>Values after artificial ageing of sample membrane</i> Testing realised by BBRI and verified by BBA.	> 1 N/mm ²
	Adhesion on concrete brick (dry - moist)		> 1 N/mm ²
	Adhesion on calcium silicate stone (dry - moist)		Adhesion value exceeding substrate strength
	Adhesion on OSB wood		Adhesion value exceeding substrate strength
	Adhesion on multiplex wood		Adhesion value exceeding substrate strength
	Adhesion on steel		> 1 N /mm ²
	Adhesion on EPDM (Tridex)		> 1 N /mm ²
Adhesion on roofing	Adhesion value exceeding substrate strength		
Adhesion of sprayplaster (knauf MP75) on Blowerproof Liquid	Adhesion value exceeding substrate strength		
	Euroclass – reaction to fire		EN13501-1
	Free from VOC, TVOC, carcinogenics, ammonia, formaldehyde	EN ISO 16000-9/6 EN 717-1 EN ISO 16000-28	
MECADI	Methane permeability	ISO 15105	62 – 75 cm ³ (STP)-mm-m-2-day-1-atm-1

- Consumption: 0,5 to 1 kg/m² (depending on substrate)
- Density: +/- 1,2 kg / litre
- Ambient and substrate surface temperature during application and drying: > 5°C.
- Available colours:
 - blue (drying to black airtight coating)
 - white (drying to white airtight coating)
- Drying time: 24 to 72 hours depending on substrate temperature, air humidity, applied layer thickness and ventilation.
- Storage: 5 – 20 °C; store dry and out of direct sunlight; shelf life: 12 months from date of production, in original unopened packaging. See details on packaging.

PACKAGING

10 kg pails – pallet : 44 x 10 kg
120 kg drums – pallet: 4 x 120 kg

SAFETY

Consult the Safety Data Sheet prior to application.

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