

BLOWERPROOF[®] LIQUID

Paint-on airtight membrane and intelligent vapour control

BBA and PASSIVE HOUSE certified



DESCRIPTION & USE

BLOWERPROOF[®] LIQUID dries to form a flexible airtight membrane and intelligent vapour control with strong adhesion to the substrate. 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)
- Insulation materials such as Rockwool

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 value between 20 and 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 non-shrink 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 of BLOWERPROOF[®] LIQUID.
- 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 - 525; Pressure: 120bar.
 - During the drying process, BLOWERPROOF[®] LIQUID will change colour from blue to black(*), which means it has fully dried out and is ready to accept a finish: plasterboards with dot&dab or sprayplaster in combination with PRIMER 52; insulation boards fixed onto BLOWERPROOF[®] membrane with glue or anchoring; timber battens fixed on and through BLOWERPROOF[®] on concrete wall to accept plaster boards; metal studs anchored on BLOWERPROOF[®] as used in SFS systems. As a floor build up on BLOWERPROOF[®] : 4cm of sand cement screed to be finished with tiles, or alternative(**).
- (*) : BLOWERPROOF[®] LIQUID is also available in white which does not show a colour change when drying. (**): Contact the manufacturer or importer for further specific advice on suitable finishes or anchors.

CHARACTERISTICS

INSTITUTE	TEST	STANDARD	VALUE/RESULT
	System certification: airtightness of building connections.	Passive House EN12114	PASS: COMPONENT A
	Airtightness system with rockwool® panels anchored on/trough Blowerproof® Liquid membrane on blockwall.	EN12114	< 0,02 m³/h.m² - Class A
	Product certification: Blowerproof® Liquid serving as permanent airtightness, vapour control 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 0,5 kg/m² - Sd: 22,9 - dry: 0,3mm(300 micron) 0,75kg/m² - Sd: 34,4 - dry:0,45mm(450 micron)
	Intelligent vapour control: 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
	Water tightness	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/mm²
	Adhesion on concrete brick (dry - moist)		> 1 N/mm²
	Adhesion on calcium silicate stone (dry - moist)		Adhesion value exceeding substrate strength
	Adhesion on OSB and multiplex wood		Adhesion value exceeding substrate strength
	Adhesion on rockwool insulation		Adhesion value exceeding substrate strength
	Adhesion on steel		> 1 N /mm²
Adhesion on EPDM (Tridex)	> 1 N /mm²		
Adhesion on roofing	Adhesion value exceeding substrate strength		
Adhesion of spray plaster (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 cm³ (STP) ·mm·m-2·day-1·atm-1
Consumption		0,5 to 1 kg/m² (depending on substrate)	
Density		+/- 1,2 kg / litre	
Ambient/substrate temperature during application and drying		> 5°C.	
UV/weather/outdoor resistance (before finish)		3 months	
Temperature resistance (after drying)		- 40°C to +70°C	
Available colours		blue (drying to black airtight coating) or white	
Drying time		24 to 72 hours depending conditions.	
Storage		5 – 20 °C; store dry and out of direct sunlight; shelf life: 12 months from date of production, in original unopened packaging.	

PACKAGING

10 kg pails – pallet : 44 x 10 kg - 120 kg drums – pallet: 3 x 120kg

SAFETY

Consult the Safety Data Sheet prior to application.

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