



GP® LIQUID BARRIER

GP® LIQUID BARRIER is a multi-use synthetic rubber-based gas-proofing and waterproofing system. It can be specified as a liquid gas proof barrier, a damp/waterproof membrane or both dependent on the project requirement. The product is an elastic, UV-resistant, single component system supplied in red.

GP® LIQUID BARRIER is a water-based non-hazardous product, safe and easy to apply direct from the packaging using a roller, brush or airless spray. The product can be applied to dry or damp substrates and dries in approximately one hour to form a tough semi-gloss finish.

Features

- Rapid drying
- Excellent bonding strength to common construction substrates
- Methane and Carbon Dioxide barrier
- Good crack-bridging properties
- Dual-use Damp/Waterproof and gas barrier
- Resistant to weak mineral acids
- Damp surface tolerant
- Good Alkali and brine solution resistance
- Non-toxic

Density	1.5-1.6 g/cm ³ at 20°C
Form Supplied	Viscous Liquid
Pack Size	8 kg / 15 kg (Bespoke sizes available on request)
Colour	Red

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.





Feature	Characteristics	Test Method	GP® LIQUID BARRIER
Physical Properties	Density		1.5-1.6 g/cm ³ at 20°C
	Form Supplied		Viscous Liquid
	Pack Size		8 kg / 15 kg (Bespoke sizes available on request)
	Colour		Red
	Shelf Life		18 months (unopened)
	Odour		Latex (Vanilla)
	Drying Time		1 hour at 20°C
Permeability*	Water Vapour Permeability		< 0.5 g/m ² /day
	Methane Permeability	EN ISO 15105-1	< 28.8 ml/m ² /day/atm
	Carbon Dioxide permeability	EN ISO 15105-1	< 267 ml/m ² /day/atm
	Radon Permeability	K124/02/95	< 9.5 x 10 ⁻¹² m ² /s
Hydraulic Properties	Water Tightness (60 kPa)	EN 1928	PASS (Watertight at 0.6mm thick)
Properties	Adhesion to concrete		> 1.1 N/mm ²
	Static Crack Bridging Ability	BS EN 1062-7 - A	CLASS A5 (> 2.5mm)
	Dynamic Crack Bridging Ability	BS EN 1062-7 - B4.2	No failure - 0.5mm - 20,000 cycles
	Chemical Resistance	BS EN 13529:2003	Resistant to a range of chemicals
	Elongation	ASTM D2370	> 100%
	Dry Film Thickness (DFT)		600 - 1000 µm (2-coats) 600µm - Brush/roller application 1000µm - Airless spray application

*Permeability values based on min. 0.6mm thick.

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Uses

- Methane, Carbon Dioxide and hydrocarbon vapour suppression
- Seamless liquid-based gas proofing solution
- Waterproofing and gas suppression at ground floor level, basements and subterranean structures
- Tanking applications, retaining walls etc.
- Bunding applications (please verify chemical resistance prior to specification)
- Can be applied under tiled areas for secondary protection in wet areas
- Repairs of floor surfaces; can be applied as a base coat on a damaged surface before application of a self-levelling thin section screed (compatible with latex or cementitious)
- Concrete roof protection
- Silage and sewage tank lining
- Barrier to water vapour for brickwork, blockwork and stonework



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Application

All surfaces should be smooth, clean, dry, sound and free from frost, oil, grease, condensation and other contamination. Remove any organic growth with a fungicidal wash as may be necessary.

Non-structural cracks, less than 0.5mm, must be filled. Structural cracks must be first repaired and filled. Fill holes and re-point flush to the finish using a cementitious repair mortar.

Newly laid concrete should have a clean textured surface, internal angles should be filleted with a 45° fillet using a suitable cementitious mortar. For expansion joints, ensure that the product is applied well into the rebate before the expansion media is applied. Other gas membranes must be exposed and lapped with where present.

The minimum ambient temperature for application is 5°C, it is not recommended to apply the product at temperatures below this as specified drying times will not be achieved.

No priming is necessary with this product. To assure that the product fully wets out the substrate the surface may be dampened. There should not be any standing water or soaking.

Product is recommended to be brush, roller or airless spray applied, avoid pouring directly onto a horizontal surface. This may cause puddling during application and increase drying time. Stir the product well for 2 minutes before use.

Should the product require thinning, it is recommended to thin 5% by volume of water initially and evaluate the resulting viscosity. The product should not need to be thinned in normal conditions of storage and use.

Coverage

For a dry film thickness of 0.6mm then apply at 0.85kg/m² per coat (1.7kg/m² per 2-coat system). For the application of a dry film thickness of >0.3mm in a single coat it is recommended that the membrane is applied by airless spray. Using airless spray, a single application dry coat thickness up to 1mm may be attained.

The product can be applied as a single coat in certain applications but two coats is universally recommended. Recommended coating thickness is 300µm (0.3mm) per coat and 600µm (0.6mm) for the overall membrane thickness for best performance. Thicker applied coatings will require greater drying time. Performance is improved where the second coat is applied at right angles to the first but it is not essential to do so. Leave 90-120 minutes before overcoating with the second coat, a touch dry test on the first coat will indicate readiness. It is recommended that the second coat is applied within 24 hours of the first coat. Full cure of the membrane is 48 hours after the second coat application.



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Concrete Roofing Applications

Blistering may occur if application is not undertaken as recommended. Blistering results from heat from the sun causing a vapour pressure build below the membrane. This is more likely to occur if the concrete surface is wet so it is recommended for this particular application that the substrate is dry. Ensuring a good bond to the substrate is essential; vigorously brush the first coat into the concrete using a stiff bristled broom. So far as possible avoid application of the membrane on a day with strong, direct sunlight (overcast but dry is ideal). To enhance bonding it may be necessary to prime the roof with a slurry of screeding latex and cement if the original surface condition is poor.

Considerations

It is always advisable to check product compatibility and adhesion by testing on a sample area before starting any sizeable project.

Do not apply if rain is forecast before product can fully dry.

Exercise caution on coating thickness, exceeding recommended coverage rates increases probability of cracking and splitting.

Do not apply this product over bituminous surfaces.

Spray: For further application information please consult the Technical Department.

For cleaning tools use water immediately after use.

Regulatory

All components are REACH (Reg. (EC) No 1907/2006) registered. The product does not contain any Substances of Very High Concern (SVHC).

When designing Type A structures (as classified in BS 8102: 2009), the product, applied correctly, is capable of providing the levels of protection required for Grades 1, 2 & 3 basements.

Toxicity and Safety

Product is not classified as hazardous according to the CLP Regulation (Reg. (EC) No 1272/2008). Refer to the Product Safety Data Sheet for specific information.

Handling and Storage

Store in cool, dry conditions in the original manufacturer packaging. The product has a 18-month shelf life provided the container is unopened. If opened the product should be used within 1 month and sealed air-tight between uses. Longer storage times may result in fillers falling to the base of the container, rigorous and thorough stirring is recommended prior to application.