

Technical Datasheet

ATAL LIQUID GAS BARRIER

Product Description

Atal Liquid Gas Barrier is a high-performance elastomeric liquid rubber membrane designed specifically for waterproofing a range of vertical and horizontal surfaces. It is a water-based compound, formulated on a styrene-butadiene copolymer. Atal Liquid Gas Barrier is a single-component coating that requires only stirring to form the ideal product to provide a waterproof and gas-proof, liquid applied, radon, methane and carbon dioxide barrier.

The standard colour is mid-grey

Key Features

- A 0.7mm thick (dry film) coating provides an effective methane barrier when applied to most clay or cementitious based construction materials
- Provides a barrier against radon gas
- An effective waterproof membrane
- Excellent adhesion, bonds to porous and non-porous substrates.
- Flexible
- Non-toxic
- Will withstand temporary light trafficking
- Cannot be punctured as fully bonded
- Easily repaired by locally over-coating
- Can be painted, plastered or screeded over.
- Rapid drying. In good conditions, two coats can be applied on the same day.
- Easily applied by brush, roller or airless spray.
- Easily applied to damp and "green" substrates

Typical Applications

- As a retro applied gas-proof membrane to concrete, masonry and brick substrates.
- Can be applied by airless spray, roller or brush to walls, floors or soffits.
- As an alternative to sheet membranes in new construction

Mixing

Atal Liquid Gas Barrier is supplied ready blended in pails. The product requires agitation using a slow speed paddle mixer. Mix carefully for 5 minutes before use. Re-agitate if stored for more than 2 hours. Do not add water.

Application Guidelines

- Surfaces must be clean, free from dust and loose material, oil, paint, fungal growth etc.
- Non-structural cracks > 0.5mm wide must be filled
- Structural cracks must first be repaired and filled
- The substrate must be sound and ideally, present a smooth face. Fill holes with Atal
- Use Atal Fix T20 to prepare the substrate if necessary flush to the surface.
- Inspect old repairs and re-repaired if necessary
- Newly laid concrete should have a clean textured surface. Apply Atal Liquid Gas Barrier to concrete or mortar within 24 hours of laying.
- Apply 45° fillets into angles formed of Atal Fix T20.
- Pre-dampen (don't wet) the substrate before applying the first coat.
- Apply the product can by stiff brush, roller or airless spray with a minimum 17/1000 of an inch nozzle. The spray method is especially suitable for less accessible locations and uneven substrates.
- Apply the first primer application at the rate of >300g/m². Ensure that the coating is even and use a circular action when spraying.
- Allow the primer coat to dry before applying the second coat.
- Apply the second coat at the rate of 700g/m² for brush application and apply at right angles to the first coat. Again use a circular action when spraying.
- Do not apply over bitumen.
- The total application thickness must not exceed 4mm if splitting or cracking is to be avoided.

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Interface with other materials

For expansion joints; ensure that Atal Liquid Gas Barrier is applied well into the rebate before the expansion media is applied.

Other gas membranes must be exposed and lapped with Atal Liquid Gas Barrier where present.

Interface with other materials

Cracks must be stabilised and filled. Apply the first coat of Atal Liquid Gas Barrier and Atal ASO Joint Tape 2000S along the line of the crack. Apply a further coating of Atal Liquid Gas Barrier to cover the reinforcing tape fully; apply the final coat as stated below.

Storage

Atal Liquid Gas Barrier should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained, and the product packaging is unopened, then shelf life of 1 year can be expected.

Health & Safety

Atal Liquid Gas Barrier should only be used as directed. We always recommend that the Safety data sheet is carefully read before application of the material. Our recommendations for protective equipment should be strictly adhered to for your protection. The safety data sheet is available upon request from your local Atal representative.

Name	Result
Components	1
Form	Thixotropic Liquid
Density	1.20 - 1.30
Application Temp	5°C and rising
Toxicity	Non-Toxic
Adhesion to Concrete	>1.1 Mpa
Elongation ASTM D2370%	>100%
Water Penetration	No Penetration At 3.0 Bars
Gas (Methane) Permeability	<8.53 x 10 ⁻¹⁰ kg/m2/s

Atal Technical Support

Atal offers nationwide and comprehensive technical support for all types of sites and construction projects.

Our team of CSSW qualified technical managers, technical advisors and site support operatives will be happy to help with our [free design service](#), free site visits, and free product training.

Atal is proud to support your project from the beginning stages, right up to the end.

Atal CPD Seminars

Atal CPD Seminars offer in-depth overviews of structural waterproofing, ground gas protection, building regulations, and industry standards.

Our seminars are created by our team of CSSW qualified technical managers, capable of catering to a project of your choosing, and are available for everyone eager to learn about or continue their professions in the construction industry.

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For any enquiries, or help with your project requiring structural waterproofing, contact us via phone or email below.

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