



BITUTHENE® LIQUID MEMBRANE

DESCRIPTION:

BITUTHENE® LM is a two-component, elastomeric asphalt-modified urethane, liquid-applied waterproofing membrane for use in conjunction with BITUTHENE® sheet waterproofing membranes for detailing.

USE:

BITUTHENE® Primer B2 is used to prime green concrete (*less than seven-day cure for normal structural concrete*). It is also used to prime damp concrete, masonry, or wood surfaces on which BITUTHENE® waterproofing membranes or GCP underlayment's will be applied.

FEATURES:

- Liquid applied — conforms to irregular profiles.
- Waterproof — resistant to water vapour and water pressure.
- Tough rubber-like — flexible and damage-resistant.
- Seamless — joint-free membrane.
- Chemically cured — unaffected by in-service temperature variations.
- Cold applied — no flame hazard.
- BITUTHENE® compatible — complements BITUTHENE® sheet waterproofing membrane systems.

APPLICATIONS:

BITUTHENE® Liquid Membrane may be used as stand-alone waterproofing system or in conjunction with BITUTHENE® sheet waterproofing membranes as a detailing aid and for smoothing out rough concrete substrates.

BITUTHENE® LM cures to a very tough, flexible, rubber-like waterproofing layer.

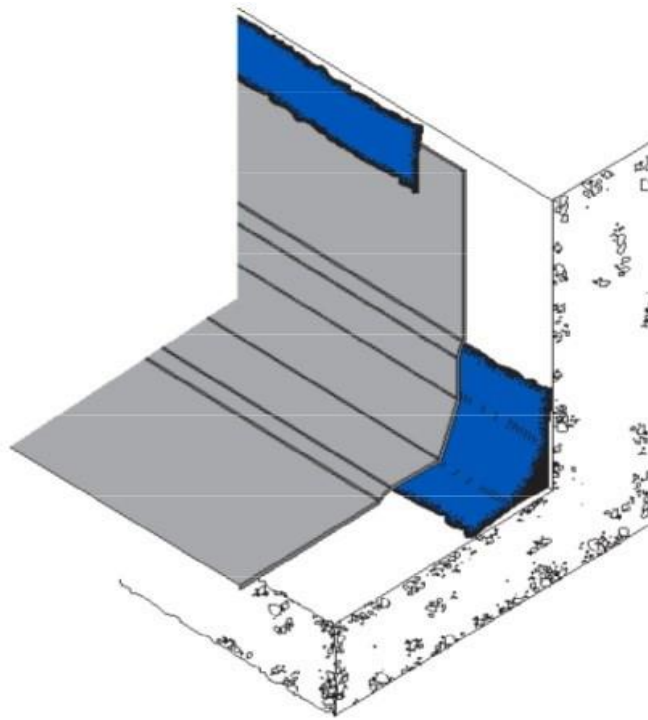
BITUTHENE® Liquid Membrane is ideal for waterproofing both concrete and masonry and may be used in both new construction and retrofit applications. Typical applications include foundation walls, tunnels, earth sheltered structures, and split slab construction, both above and below grade, such as plaza areas and parking decks. Interior uses may include mechanical rooms, laboratories, kitchens, and bathrooms.

BITUTHENE® LM is ideally suited for use with BITUTHENE® Sheet Membranes as a:

- Fillet and reinforcement material at inside corners
- Flashing material around drains, protrusions, curbs, and parapets
- Sealing material at terminations
- Repair material for defects on concrete surfaces

PERFORMANCE:

Property	Bituthene Liquid Membrane	Test Method
Colour	Black	-
Chemical Composition	Asphalt-Modified Urethane	-
Solids Content	100%	ASTM D-1644
Moisture Vapour Transmission Rate (Perms)	<2.0g / m /24 hours	ASTM E-96
Elongation	250% min.	ASTM D-412
Adhesion to Concrete	880N/m	ASTM D-903
Pliability, 180° Bend Over 1" Mandrel @ -32°C	Unaffected	ASTM D-146
Hydrostatic Head Resistance LM @ 1.5mm	50 metres	ASTM D-5385



SUBSTRATE PREPARATION:

Surfaces shall be dry and free from dust, dirt, grease, or other contaminants. Ambient temperature shall be +5°C and rising.

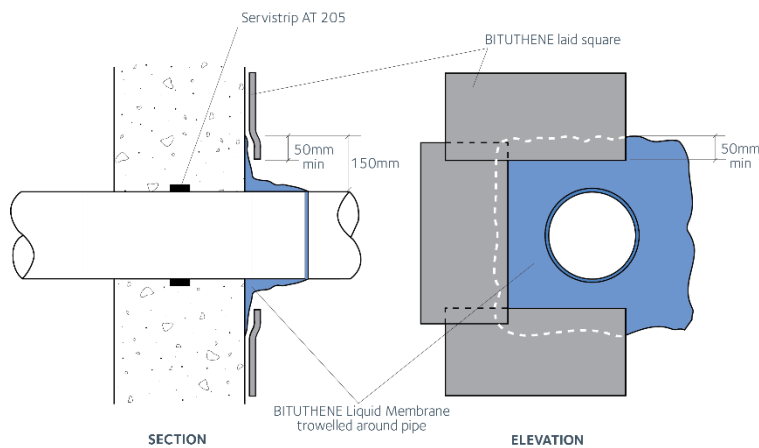
BITUTHENE® Liquid Membrane should preferably be applied prior to the installation of BITUTHENE® sheet waterproofing membranes.

BITUTHENE® Liquid Membrane may be used as a pointing surface sealer for BITUTHENE sheet membranes.

A minimum overlap of the BITUTHENE® sheet membrane of 50mm shall be provided.

BITUTHENE® Liquid Membrane is compatible with dry BITUTHENE® Primer, B2 Primer and the BITUTHENE® self-adhesive compound used on all BITUTHENE® systems.

BITUTHENE® Liquid Membrane will adhere to clean, dry metal substrates.



MIXING:

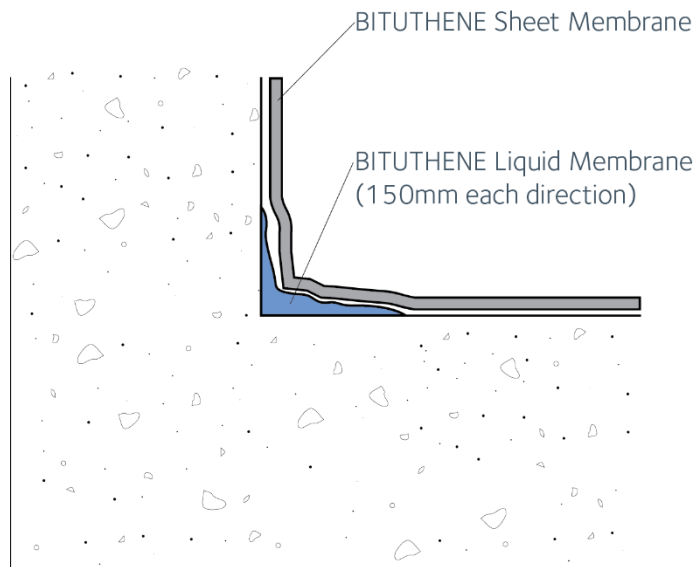
BITUTHENE® Liquid Membrane pack is supplied in a single can containing Part A base with the Part B reactor located separately under the lid. Add Part B (clear) to Part A (black).

Using a low-speed mixer with Paddle MR2 (80mm dia.), blend the two parts for approximately 1 minute at 100rpm. Mix for a further 2-3 minutes at 200-300rpm until uniform blending is achieved.

Scrape the sides and bottom of the container during mixing to ensure thorough blending. At temperatures below +10°C, store overnight at +20°C to improve blending and workability. Clean tools and equipment before BITUTHENE® Liquid Membrane has cured with mineral spirits.

Application:

Once mixed BITUTHENE® Liquid Membrane must be applied within one hour at normal ambient temperatures <i>Material which has thickened must be discarded.</i> <i>BITUTHENE® Liquid Membrane shall be allowed to cure for 24 hours before backfilling or flood testing.</i>	
Apply	with a trowel, solid barrel gun or handheld squeegee to achieve a minimum thickness of 1.5mm.
Apply	to a minimum thickness of 2.5mm when used as a detailing aid with BITUTHENE® sheet membranes.
Do not	use during wet weather.



SUPPLY AND COVERAGE:

Properties	Values
Unit Size	5.7 Litre pack (Parts A and B)
Coverage Rate: ~ 2.5mm thick x 300mm wide ~ 2.5mm thick x 2 x 150mm wide with 20mm fillet ~ 20mm Fillet	7.6 lineal metres 6.0 lineal metres 28.4 lineal metres

SPECIFICATION:

When used as a stand-alone system, BITUTHENE® LM is mixed and applied in accordance with manufacturer's instructions to a minimum thickness requirement of 1.5mm.

Where detailed with BITUTHENE® sheet membranes, waterproofing integrity at penetrations, changes in direction, and substrate preparation shall be achieved with BITUTHENE® LM mixed and applied in accordance with the manufacturer's instructions.

BITUTHENE® Liquid Membranes are supplied by DGL Bondlast Construction Products.

For further information visit www.bondlastconstruction.com or contact DGL Bondlast Construction Products.

SAFETY and HANDLING INFORMATION:

Users must read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements.

BITUTHENE® Liquid Membranes may be harmful. Special precautions are required when used in confined areas.

SDSs can be obtained by contacting **DGL Bondlast Construction Products**.

STORAGE:

- Store in dry conditions between +5°C and +32°C. off ground under tarps or otherwise protected from rain and ground moisture.
- All products must be stored in accordance with the BITUTHENE® Technical Letter, TL-0030(AP) Shelf Life/Storage and Handling of GCP Waterproofing.

CLEANING of EQUIPMENT:

Clean tools with mineral spirits at the end of each day.

Mineral spirits is a combustible liquid and should be used only in accordance with the manufacturer's safety recommendations.

Do not use solvents to clean hands or skin.

TECHNICAL SERVICES:

For assistance with any additional technical advice or ancillary component, please contact DGL Bondlast Construction Products.

Current Data Sheets for most system components are available at www.bondlastconstruction.com

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