

# BITUTHENE<sup>®</sup> 2000

Pre-formed, self-adhesive rubber bitumen/high density polyethylene damp proof membrane

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## Product Description

BITUTHENE<sup>®</sup> 2000 is a combination of a high density polyethylene film and a self-adhesive rubber/ bitumen compound.

## Features

- Damp proof - moisture/vapour proof barrier capable of resisting hydrostatic head conditions up to 5 metres.
- Flexible - accommodates minor settlement and shrinkage movement.
- Cold applied - no heating, simple, low labour cost.
- Self-adhesive - full continuity at overlaps.
- Factory controlled thickness - no variation by site labour.
- Rubber/bitumen - flexibility and resistance to most dilute acids and alkalis.
- Preformed film surface - immediate access for same day screeding.

## Applications

It is supplied in rolls 1mm thick overall, 1m wide and 30m long (30 sq metres) and is unrolled sticky side down on to blinded hardcore or structural concrete slabs. Waterproof joints are made by overlapping 50mm and firmly rolling surfaces. Applied to top of concrete slab or blinded hardcore, BITUTHENE<sup>®</sup> 2000 will provide a moisture/vapour proof barrier and radon gas barrier.

Being factory made, thickness of membrane is constant throughout and is not subjected to variations by site labour such as occurs with brush applied materials. BITUTHENE<sup>®</sup> 2000 is flexible and well capable of bridging shrinkage cracks in the concrete.

## Installation

Concrete slab or concrete blinded hardcore shall be surface dry, free from standing water, and laid to a regular surface free from sharp protrusions and hollows. Vertical faces shall be smooth, regular, dry and free from nails and primed with one coat of BITUTHENE<sup>®</sup> Primer applied by brush or roller, at a rate depending on the porosity of the surface and allowed to dry before the application of the BITUTHENE<sup>®</sup> 2000.

Brickwork must be flush pointed or rendered to provide a smooth surface. BITUTHENE<sup>®</sup> 2000 shall be laid by peeling back the protective release paper and applying the adhesive face on to the prepared surface. The material should be brushed on to the surface to exclude air. Adjacent rolls are aligned and overlapped 50mm minimum at side and ends and well rolled with a firm pressure using a BITUTHENE<sup>®</sup> Lap Roller to ensure completed adhesion and continuity between the layers. A guideline is printed on the membrane. Following the application care should be taken to prevent damage by following trades. Damaged areas can be repaired by patching with an oversized patch applied to a clean, dry surface and firmly rolled.

## Performance

PROPERTY	TYPICAL VALUES	TEST METHOD
Colour	Dark grey / Black	N/A
Tensile strength (Film Only)	40,000kN/m <sup>2</sup>	ASTM D882
Tape strength	5.10N / mm	ASTM D412
Elongation of membrane (To ultimate failure of rubberised asphalt)	150%	ASTM D412
Lap adhesion @ 23°C	648N / m	ASTM D1876
Puncture resistance	>220N	ASTM E154
Resistance to hydrostatic head	60m	ASTM D5385
Tear resistance	32N / mm	ASTM D624

## Health and Safety

Refer to relevant Material Health and Safety data sheets.

## Quality Assurance

GCP Applied Technologies is certified to ISO 9002 by TUV SUD PSB Pte Ltd.

## Specification

BITUTHENE® 2000 preformed membrane shall be laid on to smooth concrete surface, or concrete blinded hardcore by applying the preformed membrane, sticky side downwards to give well rolled 50mm overlaps, laid strictly in accordance with the manufacturer's instructions and supplied by GCP Applied Technologies. For further information, contact your local GCP representative.

## Technical Services

For assistance with working drawings for projects and additional technical advice, please contact GCP Applied Technologies.

## Supply

<b>BITUTHENE® 2000</b>	1m x 30m roll (30 sq m) Weight 40kg gross
Storage	Store upright in dry conditions below +35° C
<b>Ancillary Materials</b>	
BITUTHENE® Primer	18 litre pails
Coverage	6 ~ 8 sq metre per litre depending on method of application, surface texture, porosity and ambient temperature
BITUTHENE® Mastic	850cc cartridges, 3 litre can
BITUTHENE® LM	5.7 litre pails

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Last Updated: 2018-08-27

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