

## Bituthene<sup>®</sup> 2000

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

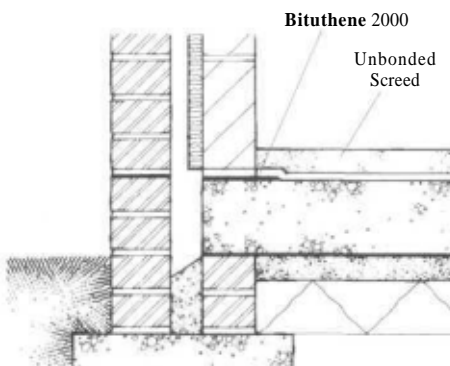
### Features

- 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.

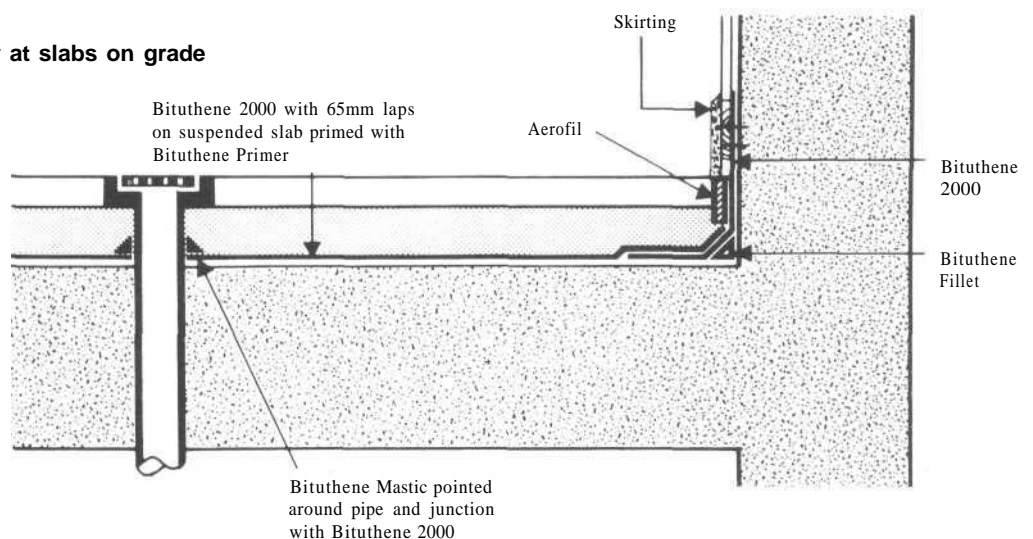
### Applications

Bituthene 2000 is a combination of a high density polyethylene film and a self-adhesive rubber/bitumen compound. It is supplied in rolls 1mm thick overall, 1m wide and 30m long (30sq metres) and is unrolled sticky side down on to blinded hardcore or structural concrete slabs. Waterproof joints are made by overlapping 65mm and firmly rolling surfaces. Applied to top of concrete slab or blinded hardcore, Bituthene 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 2000 is flexible and well capable of bridging shrinkage cracks in the concrete.



Moisture/vapour proof barrier at slabs on grade



Moisture/vapour proof barrier for suspended slabs

## Performance

Bituthene 2000 - typical performance properties

Property	Typical Values	Test Method
Colour	Dark Grey/Black	N/A
Tensile Strength (film only)	40,000 kN/m <sup>2</sup>	ASTM D882
Tape Strength	5.10 N/mm	ASTM D412
Elongation of membrane (to ultimate failure of rubberised asphalt)	150%	ASTM D412
Lap adhesion @ 23°C	648 N/m 250 N	ASTM D1876 ASTM E1 54-88
Resistance to Hydrostatic head	5 m	ASTM D.5385
Tear resistance	32 N/mm	ASTM D624
Permeance	2 ng/m <sup>2</sup> .s.Pa	ASTME96[ 1 2 ]

Typical Test Values may represent average values from samples tested. Test Methods noted may be modified.

## Supply

Bituthene 2000	1m x 30m roll (30 sq m) Weight 42 kg gross
Storage	Store upright in dry conditions below +30°C
Ancillary Materials	
Bituthene Primer	18.2 litre pails
Coverage	6-8 sq metre per litre depending on method of application, surface texture, porosity and ambient temperature
Bituthene Primer B2 (damp surface)	25 litre pail 8-10m <sup>2</sup> /litre coverage
Bituthene Mastic	850cc cartridges, 3 litre can
Bituthene Lap Roller	Unit
Bituthene Liquid Membrane	5.7 and 15.1 litre pails

## Equipment by Others

Soft brush, Stanley knife; brush or roller for priming. Stiff broom and airline for cleaning surface.

## 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 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 2000. Brickwork must be flush pointed or rendered to provide a smooth surface.

Bituthene 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 65mm minimum at side and ends and well rolled with a firm pressure using a Bituthene 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 oversize patch applied to a clean dry surface and firmly rolled.

## Health and Safety

Refer to relevant Material Health and Safety data sheets.

## Quality Assurance

W. R. Grace (Singapore) Pte. Ltd is certified to ISO 9002 Quality Systems by SILSIR (Singapore Institute of Standard & Industrial Research) for the manufacture of Bituthene Waterproofing Membranes under the registered certification number ISO 93-2-0269.

## 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 65mm overlaps, laid strictly in accordance with the manufacturer's instructions and supplied by Grace Construction Products. For further information, contact your local Grace representative.

## Guarantee

Bituthene products are warranted to be free of defects in manufacture for a period of ten years.



Visit our website at: [www.gcp-grace.com](http://www.gcp-grace.com)

W R Grace (Singapore) Pte Ltd 25 Tanjong Penjuru, Singapore 609024  
W R Grace (HK) Limited Grace Industrial Building, 6 On Chuen Street, On Lok Tsuen, Fanling, NT, Hong Kong.  
W R Grace (Malaysia) Sdn. Bhd., 71 orong CJ I/1A, Off Jajalau Balakong, 4 HOO Cheras Java, Selangor Darul L'hsan, Malaysia.  
W R Grace (Thailand) Limited, 2/p Wong Wai Wit Building, 889 Srinakann-Teparuk Road, Amphur Muang, Samutptakarn 10270, Thailand.  
W R Grace (UK) Ltd Indonesia Rep Office, #504, 3rd fl. South Tower, Pla/a Kuuilingan, Jl. H.R. Rasuna Said Kav C1 1-14, Jakarta, Indonesia.  
W R Grace (HK) Ltd Beijing Rep Office, Rm 968, Beijing Towercrest Plaza, No. j Mai Zi Dian West Road, Chao Yang District, Beijing 100016 P.R.C.  
W R Grace (HK) Ltd Shanghai Rep Office, Rms 201-207, Shanghai Electric Power Building, 430 Xu Jia Hui Road, Shanghai, P.R.C  
Grace China Ltd Rm 3104, North tower, World trade Center Complex, No. 371-37.5 Huangshidong Road, Guangzhou, P.R.C.  
W R Grace Taiwan Inc 38 Pei-Yuan Road, Chung-Li City, Taoyuan, Taiwan, R.O.C.  
Grace Korea Inc 70-1 Namdong Industrial Complex, 639 Kojan-Dong, Namdong-ku, IncheonCity 405310, Korea  
Grace Australia Pty Ltd 1126 Sydney Road, Fawkner, Victoria 3060, Australia

Bituthene is a registered trademark of W. R. Grace & Co.-Conn.

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale including those limiting warranties and remedies which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would violate or infringe statutory obligations or any rights belonging to a third party.

These products may be covered by patents or patents pending. Copyright 1998. W R Grace & Co.-Conn. Ref. DS-12/02-98 Printed in Singapore



Lei: (65) 2653033 Fax (65)2612325  
Tel:(852)26757898 Fax (852) 26759193  
Tel: (60) (3) 9046133 Fax (60) (3) 9047322  
Tel:(66)(2)7487921 Fax (66) (2) 748 7342  
Tel: (62) (21) 5212708 Fax (62) (21) 5212705  
Tel: (86) (10) 64674360 Fax (86) (10) 64674366  
Tel: (86) (21) 64720697 Fax (86) (21) 64723783  
Tel: (86) (20) 87779208 Fax (86) (20) 87789278  
Tel: (886) (3) 4615461 Fax (886) (3) 4615463  
Tel: (82) (32) 8142051 Fax (82) (32) 8142058  
Tel: (61) (3) 93592244 Fax: (61) (3) 93572193

