

# Waterproof Liquid Membrane

# BITUGUARD

## TECHNICAL DATA

### 1.0 DESCRIPTION

- 1.1 BITUGUARD is a ready-to-use, cold applied, polymer modified bitumen emulsion for use in waterproofing concrete and block foundations, retaining walls, basements, etc. It contains a minimum of 10% rubber content.
- 1.2 BITUGUARD forms a seamless, highly elastic and durable film that adheres to most common substrates such as concrete, cement blocks, wood, existing roof felts. BITUGUARD is highly resistant to chlorides and sulphates commonly present in soil.

### 2.0 ADVANTAGES & BENEFITS

Easy to use, single component high-build liquid.  
Environmentally friendly. Non-flammable. Non-Toxic.  
Service temperature -25°C to 90°C  
Can be applied to concrete immediately after removal of formwork.  
Resistant to chlorides and sulphates usually present in soil.

### 3.0 PHYSICAL PROPERTIES

3.1 Colour	Brown when applied. Dries to a black flexible membrane.
3.2 Specific Gravity	1.04
3.3 Solids Content	Approx. 40%
3.4 Viscosity	Brushable
3.5 pH	10 - 12
3.6 Toxicity	Non toxic
3.7 D.G. Classification	Not Regulated
3.8 Touch Dry Time	30 minutes at 25°C
3.9 Full Dry	3 - 4 days dependant on temperature, humidity and substrate.
3.10 Shelf Life	12 months in original sealed container
3.11 Application Rate	Damp proofing/vapour barrier.....two coats at 0.25kg - 1kg per m <sup>2</sup> per coat. Waterproofing membrane.....two coats at 1kg per m <sup>2</sup> per coat Curing membrane.....two coats at 0.4kg per m <sup>2</sup> per coat

#### Dry Film Properties (test method)

Adhesion to concrete:	0.78 N/mm <sup>2</sup>
Resistance to water ( ASTM D2939)	No blistering or re-emulsification
Curing efficiency:	<0.50 kg/m <sup>2</sup> (ASTM C309)
Rate of water vapour transmission after 24 hours:	0.40 (g/h.m <sup>2</sup> ) (ASTM E 96-95)
Service temp range:	-25°C to +90°C
Complies with ASTM D2939, BS8102, ASTM C309	

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## TECHNICAL DATA Continued

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### 4.0 USES

BITUGUARD is used to waterproof concrete and block foundations, retaining walls, basements and wet areas such as kitchens, toilet floors and balconies.

BITUGUARD may also be used as a damp proof membrane in sandwich panel construction and as facade damp proofing.

### 5.0 APPLICATION

#### SURFACE PREPARATION

All surfaces should be clean, sound and free of contamination. Absorbent surfaces such as concrete should be dampened with water or dilute BITUGUARD with 20% water and use as a primer. For very hot and porous substrates, apply two coats of this primer. In kitchens, toilets and other wet areas, all openings should be properly sealed. On all weak points such as cracks, or around pipes use a woven fibreglass mesh as reinforcement between the two coats of BITUGUARD.

Apply BITUGUARD between 5°C and 60°C.

#### APPLICATION

- 4.1 Apply BITUGUARD by brush, roller or squeegee at the recommended coverage rate. Hot, dry or very porous substrates should be dampened with clean water prior to application of BITUGUARD (and primed - see above).
- 4.2 When two or more coats are applied, ensure that the preceding coat is fully dry before applying the next coat which should be applied at right angles to the first.
- 4.3 BITUGUARD may be used as a non-degradable curing membrane when applied to footings and subgrade concrete that has no aesthetic value. BITUGUARD may be applied immediately to the concrete after removing the formwork.
- 4.4 Clean, sharp sand may be sprayed onto the wet coating to increase film thickness, improve mechanical strength and reduce tackiness of dried film.
- 4.5 Clean tools in water while BITUGUARD is wet. If it has dried, remove by mechanical means.

### 5.0 PACKAGING

20L pail.

### 6.0 PRECAUTIONS

Read labels before use. Do not apply BITUGUARD to previously coated substrates. If the substrate has been previously coated then the coating must be completely removed.

Refer to Material Safety Data Sheet for handling and first aid information. BITUGUARD is not suitable for application to substrates exposed to UV or weathering.



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