

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.
- Creep resistant to 120 degrees Celsius.
- 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 Volatile Content	less than 35%
3.4 Viscosity	Minimum 700 cp
3.5 pH	10 - 12
3.6 Toxicity	Non toxic
3.7 D.G. Classification	Not Regulated
3.8 Drying Time	1 - 3 hours
3.9 Full Dry	3 - 4 days dependant on temperature, humidity and substrate.
3.10 Shelf Life	12 months in sealed container
3.11 Application Rate	Damp proofing/vapour barrier.....two coats at 250 - 300g per m ² per coat. Waterproofing membrane.....two coats at 1kg per m ² per coat Curing membrane.....two coats at 0.4kg per m ² per coat

Dry Film Properties (test method)

Softening Point R & B(ASTM D36 - 84)	>120 degrees C
Water vapour permeability (ASTM E96 - 92)	>90 MN s/g (>0.15gr/m ² /day)
Elongation at break (ASTM D412)	>900% (temperature dependent)
Recovery at 350% elongation (ASTM D412)	>50%
Resistance to water (ASTM D2939)	No blistering or re-emulsification
Adhesion to concrete	>0.5 N/mm ²
Protection of buildings against Ground Water	As per BS 102 Code of Practice



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TECHNICAL DATA Continued

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. 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.

- 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.
- 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 tools in water while BITUGUARD is wet. If it has dried, remove by mechanical means.

5.0 PACKAGING

18kg pail and 200kg drum.

Refer to Material Safety Data Sheet for handling and first aid information.



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