



Bitumen Emulsion

Code 745 5 litres

Code 746 25 litres

Oversite Concrete and floor screeds cannot keep back all ground moisture even when an integral waterproofer is incorporated. Concrete can take months to dry out completely.

Entrapped water and ground moisture will tend to rise to the surface where it either evaporates or accumulates under less permeable materials such as linoleum, thermoplastic tiles, ceramic tiles etc.

Biokil Crown Bitumen Emulsion is a bitumen and rubber latex emulsion to be applied cold as a horizontal damp-proof membrane in solid laid concrete floors. It is suitable for and is supplied ready for immediate use on dry or damp surfaces.

Biokil Crown - Bitumen Emulsion is also recommended as a vertical external membrane to stop lateral water penetration when the external ground level is higher than the internal floor level. This is especially important when using the Damp Proof Injection system.

It is important that sand/cement is not used as an overlay in vertical applications except when there is a supporting back fill. It is important to carry out injection before using Biokil Crown Bitumen Emulsion and allow a period for solvents to evaporate. A minimum of three weeks is recommended, or longer if walls exceed 9" (230mm) thickness.

In particular this material has been designed so that, when applied properly, it provides a sandwich membrane the dried film thickness of which complies with the appropriate thickness specified in British Standard Code of Practice CP 102:1973. Such thicknesses are considered essential to the adequate performance of the membrane in providing a waterproof and vapour-proof barrier.

When dry the material forms a black, tough resilient, waterproof coating.

CHARACTERISTICS

Ready for immediate use	Yes
On site heating required	No
Second coat necessary	Yes
Odourless and taintless when dry	Yes
Method of application	Brush
Storage life	Up to 6months
Storage precautions	Protect from frost

TECHNICAL SPECIFICATIONS

Specific gravity	1.02
Working temperature	Not below 4°C (40°F)
Recommended coverage rate (Square metres/coat)	1.5 per litre
Recommended Coats	2
Drying time per coat	12 to 24 hr.
Shelf life	approx 6 months
Do not thin.	

Protect from frost.

Store in a cool dry place,
between 4°C-30°C

Packaging

5litre & 25 litre containers

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TECHNICAL DATA



TECHNICAL NOTES

The actual drying time will depend on the rate of evaporation, air and round temperatures and humidity. Times quoted are guides only and, in all cases will be assisted by ventilation. Biokil Crown Bitumen Emulsion complies with the relevant sections of the following standards.

1. British Standard Code of Practice CR102: 1973. "Protection of buildings against water from the ground."
2. The Building Regulations, 1965. "Buildings and Buildings".
3. Building Research Station Digest (second series) No. 54 "Damp-Proofing Solid Floors". Ministry of Public Buildings and Works Advisory Leaflet No. 23 (1963). "Damp-proof Courses".

METHOD OF APPLICATION

This material when applied as a horizontal damp-proof membrane must in all cases be laid so that it overlaps the damp-proof courses in adjoining walls. It should be noted that these damp-proof membranes are recommended for the damp-proofing of floors where there may be capillary rise of moisture, but not with those where water can exert hydrostatic pressure. CP102:1973. Sections 1005 and 1007.

1. It is essential that if the concrete surface is dry, absorbent, or dusty it be made non-absorbent by lightly dampening with water. This will assist application.
2. Apply the emulsion undiluted to cover not more than (1.5 sq.m./litre). Use a soft brush or broom, damping it before, and occasionally during use to avoid clogging and assist application. The finished application should be free from weeps and of uniform thickness.
3. When this coat is dry apply a second in the same way, covering not more than (1.5 sq.m. per litre). When dry, the membrane should be black and shiny. Any brown colouration or movement between the film and backing should be taken to mean that drying is incomplete.
4. While moist blind the coat with sand to prevent damage and provide a key for the final concrete screed. When the final coat is dry, brush off surplus sand. Further work can then proceed.
5. In bad weather, drying can be assisted by ventilation and warmth. Biokil Crown Bitumen Emulsion is not recommended for roofing applications since the rubber latex may lead to crazing and cracking of the film surface unless it is covered with sand or other U.V shield.

SAFETY

Appearance is brown/black liquid. Biokil Crown Bitumen Emulsion is a dispersion of bitumen in water with surface-active agents and colloids none of which are likely to constitute a hazard to health when handled correctly.

Prolonged repeated contact with skin may cause irritation avoid contact.

Avoid contact with eyes wear eye protection if risk of splashing.