

Expanproof* 30



CONSTRUCTION CHEMISTRY

Multi-purpose, rubberized, bitumen emulsion

Uses

Provides a highly effective waterproof membrane, with cost and labour saving supplementary benefits. It can be used in a wide range of applications :

- Damp proof membrane in 'sandwich construction'.
- Dual purpose water-proofer and curing compound.
- General purpose water-proofer for walls and floors.
- Highly effective vapour seal.
- Effective as an adhesive/bonding agent for cork panels, insulation boards, expanded polystyrene etc.

Advantages

- Cost saving, material which can be used as a water-proofer and curing compound in a single application.
- Labour saving, single component material which is also water based, and therefore non-toxic.
- Environmentally friendly, non-flammable, asbestos free and can be used in confined spaces.
- Excellent service life - resistant to chloride and sulphate ions.
- Versatile - highly extensible.

Standards compliance

Expanproof* 30 complies with the concrete curing requirements of ASTM C309, when applied at the rate of 4m² per liter.

Description

Expanproof* 30 is a rubber reinforced, bitumen emulsion. It is supplied as a single component liquid, dark brown in colour, which dries to form a black, flexible coating.

Expanproof* 30 is available in drums and may be applied directly to the substrate by brush or squeegee.

Specification

Where shown on the contract documents, below ground surfaces shall be protected with Expanproof* 30, a rubberized bitumen emulsion, applied at the rate of 1 m² per liter giving a total dry film thickness of minimum 600 microns.

Properties

| | |
|-------------------------|---------------------|
| Form | : Dark brown liquid |
| Specific gravity | : 1.00 |
| Solids content | : Approx. 60 % |
| Rubber content | : Approx. 10 % |
| Drying time | : 30 mins at 25°C |
| Overcoating time | : 1 hour @ 25°C |

Instructions for use

Surface preparation

All surfaces must be clean, dry and free from dirt, dust, oil and grease.

Application

Expanproof* 30 should be applied by brush or squeegee to prepared surfaces. Stir well before use, replace lid when not in use. Soak up any spillage with sand or sawdust and wash down immediately.

Damp proof membrane and vertical vapour barrier

Apply Expanproof* 30 at the rate of 1m² per liter, to give a minimum dry film thickness of 600 microns, as per CP102:1973.

For vertical applications, ensure that there is no material sag. This can be best achieved by multiple coat applications at a maximum rate of 200 microns per coat. For multiple coat application, the second coat should be applied at right angles to the first. All applications should be continued up verticals to the existing damp proof course. Ensure that the membrane is not punctured or damaged during subsequent applications.

Where the surface is to receive a render or plaster finish, a keyed surface should be formed by 'gritting' the second coat with clean, dry sand. Allow a minimum of 48 hours drying period before applying a plaster, render or floor screed.

Flooring adhesive

Expanproof* 30 is a very effective waterproof adhesive for laying wood blocks, cork, asphalt and asbestos tiles. The surface should be clean, dry and smooth. Expanproof* 30 should be applied to the floor screed using a notched trowel, and then left to become tacky after which the tiles should be pressed firmly into place.

Any contamination of the tile's upper surface should be cleaned immediately using a cloth - refer to any special recommendations made by the tile manufacturer.

Adhesive for insulation

Expanproof* 30 is suitable for bonding insulation materials such as polystyrene, fiber board and cork slabs to walls and floors.



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The two surfaces to be bonded must be clean, level and free from all points of contact. Expanproof* 30 should be applied to both surfaces and left to become tacky (colour begins to darken). The two surfaces should then be pressed firmly and evenly together.

Repairs

Any damaged areas can be readily over-coated to restore the membrane continuity - provided the surface is properly prepared.

Cleaning

Expanproof* 30 can be removed using only clean water, whilst still damp. If left to dry, then Expanchem Solvent 102* must be used.

Limitations

Expanproof* 30 is not a structural adhesive, therefore mechanical fixing should be used where appropriate.

Application should not commence below 6°C or above 45°C. Avoid application during windy atmospheric conditions. Application during such periods might cause cracking.

Estimating

Supply

Expanproof* 30 : 30 and 200 liter drums

Theoretical coverage

(actual coverage rates will depend upon substrate porosity)

General use : 1 m² per kg to give 600 microns dft

Curing compound : 4 m² kg liter to give 150 micron dft

Storage

Expanproof* 30 will have a minimum shelf life of 12 months if stored in normal warehouse conditions at less than 40°C.

Precautions

Health and safety

Expanproof* 30 contains bituminous material. Possible risk of irreversible effects in contact with skin. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Fire

Expanproof* 30 is not flammable. Expanchem Solvent 102 is flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Flash point

Expanchem Solvent 102 : 33°C

For further information, please consult the Material Safety Data Sheet for the respective products.



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* Denotes the trademark registered.

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