

Expanproof* 100*

Bituminous protective coating and primer

Uses

Expanproof* 100 is designed to provide a continuous barrier to the passage of water and water vapour and can be used to produce vapour barriers, damp proof courses, linings to potable water tanks and pipes, below ground concrete protection, concrete curing by water retention, and corrosion protection to metal surfaces.

Advantages

- Single component
- Easily and inexpensively applied; high coverage rate
- Tough and resistant to most naturally occurring chemicals
- Does not taint water
- Can be applied to damp concrete substrates
- Quick drying, can be use as primer for membrane
- Excellent adhesion to most common building substrates
- Excellent water retention for use as a curing compound
- Successfully used for over 30 years in a wide range of environments

Standards compliance

Expanproof* 100 complies with BS3416:1975 Type 1A General purpose bituminous coating, BS3416:1975 Type II Bituminous coating for drinking water tanks and ASTM C309 water retention requirements for curing membranes.

Description

Expanproof* 100 low viscosity blend of selected bitumens in solvent dries to form a high quality tough bitumen film. Expanproof* 100 can be applied by brush, roller or spray equipment to prepared surfaces for a variety of purposes.

Properties

	Test method	Typical result
Drying time	: BS3900:C2:1972	2 1/2 hours
Flexibility	: BS3416:1975	Pass
Chloride protection	: BS3416:1975	Pass
Effect on water	: BS3416:1975 Appendix B	Pass
Overcoating time	: 3 hours (min)	

Instructions for use

Preparation

Surfaces must be clean, dry, free from oil, grease and all loosely adhering particles such as rust, mill scale, mortar and cement laitence. These should be carefully removed by wire or stiff brushing and finally soft brushing or filtered compressed air to remove dust.

Oil and grease should be removed by the use of a proprietary degreasing agent. For optimum adhesion to steel, grit blasting to SA2_{1/2} is recommended.

Expanproof* 100 can be applied to damp concrete, brick and plaster surfaces provided there is no free surface water or bleed. A test patch is recommend where there is doubt.

Application

Stir thoroughly prior to use.

Damp-proof membranes, vertical vapour barriers

Apply a full coat of Expanproof* 100 and allow to dry. Coverage rate should be approximately 3m² per litre. Apply a second coat of Expanproof* 100 at right angles to the first coat.

Water tank and pipe line protection

Two coats of Expanproof* 100 should be applied as detailed above. Where necessary the coating can be thickened at floor/wall corners by forming a 20x20mm fillet onto the first coat of Expanproof* 100 and liberally coating with a second coat of Expanproof* 100.

Concrete screeds or render

Where it is necessary to cover the membrane with a screed or render, clean grit 2mm nominal size should be broadcast into the wet second coat to provide a mechanical key.

All loose grit should be removed prior to placing the screed/ render. (Care should be taken to ensure that the membrane is not damaged during placing of the screed).

Curing compound

Apply two coats of Expanproof* 100 as for damp proof membranes. This will give a curing efficiency in excess of 80% and comply with ASTM C309. Expanproof* 100 can be applied to damp concrete.



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Repairs

Damaged areas of Expanproof* 100 can be readily over coated to restore the continuity of the membrane.

Cleaning

Tools and equipment should be cleaned with Expanchem Solvent 102 immediately after use.

Limitations

Application should not commence if the temperature of the substrate is below 6°C or above 45°C.

Technical support

Expanchem offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Expanchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Estimating

Supply

Expanproof* 100 : 30 and 210 litre drums

Expanchem Solvent 102 : 5 litre cans

Expanchem Chemical Degreaser : 25 litre cans

Coverage

Expanproof* 100 : 2.0-7.0m²/litre per coat depending upon substrate porosity and smoothness.

To comply with ASTM C309, 2 coats are required at 3m² per litre per coat.

Storage

Shelf life

At least 12 months if kept in original unopened containers.

Storage conditions

Store under normal warehouse conditions in the original unopened containers away from direct sources of heat or naked flames. Do not cover with tarpaulin other than for trucking purposes.

Precautions

Health and safety

Some people are sensitive to resins and solvents so gloves and a barrier cream such as Kerodex Antisolvent, Rozalex Antipaint, Debba-Wet Work or similar should be used when handling these products. Remove contamination from the skin with soap and water or a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Expanproof* 100 contains solvents. Avoid breathing the vapours and ensure good ventilation. Replace lid when not in use. Soak up any spillage with sand or sawdust.

Fire

Expanproof* 100 and Expanchem Solvent 102 are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Flash points

Expanproof* 100 : 37°C

Expanchem Solvent 102 : 33°C



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* Denotes the trademark registered.

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