







Expanproof* Bitu PU

Single Component,Polyurethane-Bitumen Modified, Liquid Waterproofing Membrane

Uses

Expanproof* Bitu PU is a liquid-applied, highly permanent elastic, cold applied and cold curing, bitumen extended, Single component polyurethane membrane used for long lasting waterproofing.

To act as a damp-proof membrane and vapourseal for concrete and masonry. It can also be used as a protective coating for concrete below ground.

- Foundation Wall
- Basements
- Wet Areas
- On concrete, stone, fiber-cement sheets
- · Metal surfaces

Advantages

- Excellent Adhesion to various substrates such as Concrete, Cement Screed, Steel Surfaces.
- Provides a seamless, Waterproof and protective coat
- Cost Efficiency.
- Reduce chance of pinholes from concrete.
- Applies on green concrete.
- Applicable even to irregular substrates.
- Crack-bridging ability.
- Can be applied horzontally and vertically.

Standard compliance

Expanproof* Bitu PU meets the requirements of ASTM C836-84.

Description

Expanproof* Bitu PU is a polyurethane-based and bitumen modified, single component, ready to use liquid waterproofing membrane.

Chemical properties

Expanproof* BitubPU is unaffected by a range of mild acids, alkalis and water borne salts and is resistant to bio-deterioration.

Properties

Tack free time @ 25°C : 15 hours

Time to full cure @ 25°C : 48 hours

Typical cured membrane properties (at 28 days)

Typical cured membrane properties (at 26 days)		
Elongation		
(ASTM D412)	: 620 % ± 20%	
Tensile strength (ASTM D412)	: 1.5 N/mm²	
Tear resistance (ASTM D1004)	: 15 N/mm2	
Specific Gravity	: 1.2 ± 0.02	

Water vapour transmission (ASTM E96) : 10.0 g/m2/24 hrs.

Shore A hardness		
(ASTM D2240)	: 25	

ttack

: No Attack

Chemical Resistance	: Sodium Alkalis HCL 05%	NoEffect NoEffect NoEffect

Extensibility after heat aging (min. requirement - extended to 6.4mm

Bacteria Resistance

(ASTM D4299)

without cracking) : No cracking or tearing

Service temperature

(continuous ambient) : -20°C to 50°C

Cracks

All shrinkage and non-moving structural cracks should be pretreated with not less than a 1.00 mm coating of Expanproof*Bitu PU extending 75mm either side of the crack. Allow to cure overnight before general application.



Instructions for use

Preparation

All surfaces to be waterproofed should be sound, clean and dry.

Concrete surfaces should have a light steel-trowel followed by a fine hair-broom or equivalent finish which is dry and free of dust, oil and other contaminants. All high spots should be removed.

All metal surfaces should be made clean of paint, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean with Expanchem Solvent* 102.

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Application

Expanproof* Bitu PU can be applied with a brush, roller, squeegee or airless spray. A minimum of two coats should be applied should be applied. The first coat should be allowed to dry completely before Second coat is applied. The two coats should applied at right angles to one another.

The minimum application life (after opening the pack) is up to 48 hours if stored in closed containers.

Curing and protection

Expanproof* Bitu PU membrane must be cured for a minimum of 24 hours @ 25°C before placing protection. Where damage to the membrane is possible (by traffic, backfilling, etc) it should be protected by a cementitious screed or protection boards. A dust coat of cement should be used to prevent adhesion of the membrane to the boards. Where a bond with the topping is not required, a separator sheet should be used.

To prevent damage to the membrane it is recommended that Expanproof* Bitu PU is laid in strips of 1 metre width to permit the application of a screed or Protection Board from the uncoated area.

Cleaning

Tools and equipment should be cleaned with Expanchem Solvent* 102 immediately after use. Do not use the solvent for thinning except where a sealing coat is required.

Storage

Shelf life

Expanproof* Bitu PU has a shelf life of 12 months if keptbelow 25°C in the original, unopened packs.

Estimating

Supply
Expanproof* Bitu PU : 15 Kg Bucket
Expanchem Solvent* 102 : 5 liters can
Coverage

Expanproof* Bitu PU: 1.6 kg/m² @ 800 microns DFT in 2 coats

Precautions

Health and safety

Some people are sensitive to resin systems. Gloves and a barrier cream such as Kerodex Antisolvent, Rozalex Antipaint or Debba-Wet-Work should be used when handling these products. If contact with the resin occurs it must be removed before it hardens with 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 advice. Ensure adequate ventilation when using resin and solvent containing materials.

Fire

Expanproof* Bitu PU, Expanchem Solvent* 102 contain flammable solvents. Do not use near an open flame or smoke during use.

Flash points

Expanproof*Bitu PU	:	55°C
Expanchem Solvent* 102	:	33°C

For further information, refer to the Product Material Safety Data Sheet.



Technical support

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

* Denotes the trademark registered.

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