

Expanproof* 120*



CONSTRUCTION CHEMISTRY

Bituminous protective compounds

Uses

Expanproof* 120 is designed to provide a continuous waterproof barrier. Used in conjunction with Expanproof* 110*, Expanproof* 120 will provide a dry film thickness complying with BS 8102 for concrete protection and waterproofing. Expanproof* 120 can be used for repairs to felt/asphalt roofs.

Advantages

- Asbestos free
- Single component
- Easily and inexpensively applied
- Resistant to most naturally occurring chemicals
- Odourless and taint free when dry
- Excellent flexibility
- Used for over 30 years in a wide range of environments
- Excellent adhesion to most common building substrates

Standards compliance

Expanproof* 120 complies with ASTM D1227:1995, Type 2 : Class 1.

Expanproof* 120 complies with ASTM C 309 water retention properties, when applied at a rate of 2.5m²/litre.

Description

Expanproof* 120 is based on selected bitumens that are blended together with non-asbestos reinforcing fibres to provide an outstanding liquid grade material used for intermediate thickness coating. When dry Expanproof* 120 produces quality, high film build flexible bitumen coating.

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.

Properties

Solids content	: approx. 55%
Specific gravity @ 20°C	: 1.0
Flexibility (BS3416)	: Pass
Drying time	: 4-8 hours @ 20°C for thickness up to 0.5mm. Drying times will be longer for lower temperatures and higher thicknesses.
Chemical resistance	: Resistant to water, aqueous salt solutions, common detergent solution, mild mineral acid and alkali solutions. Not resistant to organic solvents.

Instructions for use

Preparation

All surfaces must be clean and dry and all loosely adhering particles such as rust, mill scale, mortar, cement laitance etc should be carefully removed by wire or stiff brushing and finally soft brushing to remove dust.

Surfaces must be free from oil and grease. In the case of cementitious surfaces, oil and grease can be removed with proprietary chemical degreaser and in the case of steelwork, oil or grease should be removed by Expanchem Solvent 102*.

Surfaces to be treated with Expanproof* 120 coating should always be primed with Expanproof* 110.

Application

Stir well until homogeneous. Expanproof* 120 can be applied by brush, roller or spray equipment.

Below Ground

Apply Expanproof* 110 as a prime coat onto the prepared substrate. Apply Expanproof* 120 evenly over the dry primed surface.

Economy roof membrane for non-critical areas

For low cost roofing application, the roof slab should be at least 28 days old, the surface prepared by priming with Expanproof* 110.



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Cracks will be highlighted as the bitumen coating dries and when completely dry, should be dealt with by applying 1 coat of Expanproof* 120 over the cracks at 1mm thickness, 50mm either side. Expanproof* Scrim* reinforcement should then be embedded into the Expanproof* 120 then overcoated with a second coat of 1mm w.f.t..

Vertical upstands should be coated with Expanproof* 120 after the Expanproof* 110 primer has dried and turned down onto the deck for 75mm (over a 20x20mm sand/cement fillet).

When the Expanproof* 120 applied to the upstands has dried, Expanproof* 120 should then be applied to the whole roof area at a w.f.t. of 1mm (1 litre / m²) overcoating all preparatory work.

Protection boards should be employed to protect Expanproof* 120 from foot traffic damage when applied on horizontal surfaces. Extra care should be taken when Expanproof* 120 is exposed to direct sunlight.

After 7 days the whole roof area should be coated with Expanprime* 32 followed by Expanproof* Reflectacoat* solar reflective coating. Care should be taken not to damage the membrane whilst the Expanproof* Reflectacoat is being applied.

After a further 3 days a second application of Expanproof* Reflectacoat should be applied. For accessible roofs subject to regular foot traffic or for fully insulated roofs, please consult Expanchem for advice.

Cleaning

Clean all tools and equipment with Expanchem Solvent 102.

Limitations

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

Storage

Shelf life

6 months if kept in original unopened containers.

Storage conditions

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

Estimating

Supply

Expanproof* 120	: 20 and 200 litre drums
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Expanproof* 110	: 20 and 200 litre drums
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Expanproof* Scrim	: 1000 mm (w) x 50 m (l)
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Coverage

Expanproof* 120	: 1.0-2.5m ² /litre/coat
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Expanproof* 110	: 2.0-7.0m ² /litre per coat depending on substrate porosity/smoothness
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Precautions

Health and safety

Remove spillages from skin with soap and water or a resin removing cream such as Kerocleanse 22. Do not use solvent. Any eye contamination should be washed with copious quantities of clean water and medical treatment sought.

If ingested obtain medical attention. Do not induce vomiting. Avoid prolonged inhalation of the vapour. Ensure adequate ventilation.

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



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* Denotes the trademark registered.

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