

Expanproof* 50C

Emulsified bitumen protective coating

Uses

Damp-proof coating and vapour seal for concrete and masonry. It can also be used as a protective coating for below ground concrete structures.

- Below ground foundation protective coating
- Can be used as curing membrane, and bond breaking

Advantages

Expanproof 50C has a number of significant advantages as follows:

- Easy to apply by brush
- Economical in use
- Multipurpose, serves both as a protective coating and curing membrane
- Contains no solvent, no health hazard
- Resists attack by chloride and sulphate ions present in the ground water
- Adhere to wide range of materials including concrete, steel, cork and wood

Standards compliance

Expanproof * 50C complies with concrete curing requirements of ASTM C309-93 when applied at a rate of 2m² per kg. and to BS6949:1991 requirements for bituminous coating, ASTM D1227 Type III Class 1

Description

Expanproof 50C is a brown/black liquid blend of selected bitumen emulsified with water to give an easily applied

Specification

Concrete surfaces shall be waterproofed with Expanproof* 50C, bitumen emulsion protective coating. It shall be applied at a rate of 2 m² per kg. and thus act as a combined waterproofing and curing agent in accordance with ASTM C309.

Technical support

Expanchem Fospak offers a full technical support package to specifiers, end users and contractors, as well as on-site assistance in locations all over the world.

Properties

Expanproof 50C provides an excellent waterproofing to below ground structures.

The essential properties of Expanproof* 50C are:

Bitumen content : 50%

Time between coats : Minimum 2 hours

Chemical resistance :

(Test results with some common chemicals)

Potable water - Resistant

Sea water - Resistant

Ground water - Resistant

Instructions for use

Surface preparation

Surfaces to be coated must be sound, clean and free of oil or grease. Any oil or grease contamination should be removed with a proprietary chemical degreaser.

If the surface is dusty or porous, it should be primed with a coat of Expanproof* 50C, diluted with an equal quantity of cool, clean water and allowed to dry, prior to addition of water in emulsion, check water compatibility with emulsion, take small quantity of emulsion and mix with available source of water.

Application

Expanproof 50C may be applied by brush, broom or squeegee. It is recommended that one or two coats should be applied depending on the degree of protection required. Allow a minimum of 2 hours between coats. Where the Expanproof 50C is to take a screed, the second coat should be blinded with clean, dry sharp sand as soon as applied. The excess sand should be brushed off when the coating has dried.

Cleaning

Expanproof 50C should be removed from tools and equipment with water when it is wet. On drying Expanproof 50C may be removed with Expanchem Solvent 102*.

Estimating

Supply

Expanproof* 50C : 30 & 218 Kg. drums

Expanchem Solvent 102 : 5 liter containers

Coverage

Expanproof* 50C : 2.0 to 5.0 m² / kg.
(depending on substrate)

Storage

Shelf life

Expanproof 50C has a shelf life of 12 months when stored under normal warehouse conditions below 40°C.

Precautions

Health and safety

Expanproof 50C 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 50C 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.

Water addition:

Always add suitable / compatible water into Expanproof 50C, if water is not compatible with emulsion, it will break emulsion and creates lumps.

* Denotes the trademark registered.

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