



Expanproof* GPE

General purpose bitumen emulsion waterproofing coating

Uses

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

- Below ground structures, plinth, foundation, pile caps, can also be used for roof and as curing membrane

Advantages

Expanproof GPE has a number of significant advantages as follows:

- Easy to apply by brush, roller or spray
- Environmental friendly and economical in use
- Multipurpose, serves both as a protective coating and curing membrane, also protect steel from corrosion
- Solvent free, 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* GPE complies to BS 6949:1991 requirement for bituminous coating

Description

Expanproof GPE is a brown/black liquid blend of selected bitumen emulsified with water to give an easily applied waterproofing and protective coating.

Specification

Concrete surfaces shall be waterproofed with Expanproof* GPE, 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* GPE provides an excellent waterproofing to below ground concrete and steel structures.

The essential properties of Expanproof* GPE are:

Appearance : Brown liquid (Black on dry)

Time between coats : Minimum 2-4 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, it should be primed with a coat of Expanproof* GPE diluted with an equal quantity of clean water and allowed to dry.

Application

Expanproof* GPE 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* GPE is to take a screed, the second coat should be bladed with clean, dry sharp sand as soon as applied. The excess sand should be brushed off when the coating has dried.

Cleaning

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

Estimating

Supply

Expanproof* GPE : 218 Kg. Drums

Expanchem Solvent 102 : 5 liter containers

Coverage

Expanproof* GPE : 3.0 to 6.0 m² / Kg.
(depending on substrate)



CONSTRUCTION CHEMISTRY

Storage

Shelf life

Expanproof* GPE has a shelf life of 6 months when stored under normal warehouse conditions b/w 8 to 50°C.

Precautions

Health and safety

Expanproof* GPE 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* GPE 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.

* Denotes the trademark registered.

REGIONAL SALES OFFICES IN PAKISTAN:

Fospak (Pvt) Ltd.

Head Office

702, Business Avenue,
Block-6, PECHS., Shahra-e-Faisal,
Karachi, Pakistan.
Tel # +92-21-34528477, 34529859
Fax # +92-21-34522436
Email : info.khi@fospak.com.pk

Lahore Sales Office

2nd Floor Sarwar Shaheed Plaza,
Cavalry Ground,
Main Boulevard, Lahore Cantt,
Lahore, Pakistan.
Tel # +92-42-36675773
Fax # +92-42-36675838
Email : info.lhr@fospak.com.pk

Rawalpindi Sales Office

1st Floor,
Al-Harmain Plaza,
Main Murree Road,
Rawalpindi, Pakistan.
Tel # +92-51-4575746
Fax # +92-51-9290590
Email : info.isb@fospak.com.pk

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