



EmO Guard PE 140

Eco friendly, foundation protection coating based on hydrophobic polyester resin.

Uses

Provides a highly effective protective coating, with chemical and abrasion resistance to prevent corrosion of concrete substrates and exhibits coat and labour saving supplementary benefits

It can be used in a wide range of applications:

- Suitable for underground protection, foundations etc.
- Dual purpose protective coating and curing compound

Advantages

- Can be applied on damp concrete which is one day old.
- Cost saving, material which can be used as a protective coating and curing compound in a single application
- Single pack – no component mixing, no wastage, multiple application from single pack
- UV – stable – will not fade or deteriorate in strong sunlight
- Environmentally friendly, solvent, pitch and asbestos free and can be used in confined spaces
- Excellent service life – resistant to chloride and sulphate ions plus a wide range of chemicals
- Durable finish – offers good abrasion resistance
- Labour saving, single component material which is also water based, and therefore non – toxic

Standard compliance

EmO Guard PE 140 complies with the concrete curing requirements of ASTM C309, when applied at the rate of 5m² per litre.

Description

EmO Guard PE 140 is a single component, high performance, grey colour viscous liquid coating based on hydrophobic polyester resin. It is totally free from hazardous materials/ carcinogens such as coal tar pitch, hydrocarbon based solvents, aromatic amines etc.

Typical Properties

Specific gravity (20 ⁰ c) :	1.28g /cm ³
Solid content by weight :	53.8%
Solid contents by volume	
(ASTM D2697) :	43%
Surface drying time	
(ASTM D 1640) :	35 – 40 min@ 20 ⁰ c
	10 – 15 min@ 35 ⁰ c
	04 – 06 min@ 45 ⁰ c
Over coating time	
(ASTM D 1640) :	6 – 7 hours@ 20 ⁰ c
	3 – 4 hours@ 35 ⁰ c
	2 – 3 hours@ 45 ⁰ c

Complete cure : 7 days@ 25⁰c

Water absorption

(BS 1881 Pt.122) : 0.2%

Reduction in water absorption

(BS 1881 Pt.122) : 90.7%

Water permeability

(DIN 1048 Pt.5) : Nil

Adhesion strength

(ASTM D 4541) : 1.5 N/mm²

Curing efficiency

Applied on 24 hours cured mortar

(ASTM C 309) : moisture loss

0.17kg/m²

Chemical resistance

Acids (m/v)

Lactic acid 20% : excellent

Acetic acid 20% : excellent

Nitric acid 5% : excellent

Solvents & organics

Ethylene glycol 40% : excellent

Aqueous solutions

Copper sulphate 25% : excellent

Zinc sulphate 25% : excellent

Magnesium sulphate 25%: excellent

Tap water : excellent

Sea water : excellent

Ground water : excellent

High sulphate water : excellent

Distilled water : excellent

Technical Support

ELMRR provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Directions for Use

Surface preparation

All surfaces must be clean and free from laitance, dirt, dust, oil and grease. In case of porous substrates, spray liberal quantity of water on the substrate, prior to commencement of application.

Application

EmO Guard PE 140 should be applied by roller to prepared surfaces. Stir well before use, replace lid when not in use. Soak up any spillage with water and wash down immediately. Apply EmO Guard PE 140 at the rate of 2.5 m² per liter, in two coats to give a minimum dry film thickness of 400 microns. Vertical applications can be achieved by single coat application up to a maximum wft of 600 microns per coat. For multiple coat application, the second coat should be applied at right angles to the first within the stated over coating times. All applications should be continued up verticals to the

existing damp proof course. Ensure that the coating is not damaged during subsequent applications.

Repairs

Any damaged areas can be readily over coated to restore the membrane continuity. The surface is to be properly prepared using emery cloth to rub down the surface to provide a key and is to be made dust free, prior to product application.

Cleaning

EmO Guard PE 140 should be removed from tools and equipment with clean water immediately after use. If left to dry then use a scourer

Limitations

- Application should not commence below 10⁰c or above 50⁰c
- Do not apply on running or standing water or when there are chances of rain

Estimating

Supply

EmO Guard PE 140 : 20 Liter pails

Theoretical coverage

General use : 2.5 m² per litre @ 400 micron wft/coat (2 coat application recommended) (actual coverage rates will depend upon substrate porosity)

Curing compound : 5 m²/ litre per coat to give 200 microns wft

Storage

EmO Guard PE 140 will have a minimum shelf life of 12 months if stored in normal warehouse conditions at less than 25⁰c

Health & Safety

Precautions

EmO Guard PE 140 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Important note

ELMRR endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as ELMRR has no control over the conditions of use and the competence of any labor involved in the application are beyond our control. As all ELMRR technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.



Fire

Non- inflammable.

For further information please contact your local Elmrr office.

Product Manufactured By:

Elmrr Chemicals
(New Rusayl Heights)

FACTORY & H.O
P.O.BOX 176, PC 124,
Rusayl Industrial Area,
Sultanate of Oman
Tel: +968 24446914
Fax: +968 24446776

Email: sales@elmrr.com