



EmO Guard FC 140

High performance epoxy resin floor coating

Uses

EmO Guard FC 140 provides a hard wearing, chemical and abrasion resistant floor finish. It is ideally suited for use in wet areas where a high degree of resistance to chemicals, oils and grease is required such as:

- Dairies
- Soft drink production facilities
- Chemical manufacturing plants
- Car parks and Work shops
- Schools
- Hospitals

It can also be used as a final coating and sealer for epoxy floor screeds to provide a more durable and easily cleaned surface where high impact is desirable.

Typical Applications & Advantages

- Fast application – minimizes down time
- Chemically resistant – good resistant to a wide range of chemicals
- Durable, low maintenance costs
- Hygienic – provides a seamless floor surface which is easily cleaned
- Attractive – Can be made in a wide range of colors up on request.
- Specially formulated for use in Middle East condition

Product Description

EmO Guard FC140 is a solvent based system based on epoxy resins and curing agents specially selected for their ability to withstand chemical attack. The system consists of pre-weighed base and hardner components, supplied as two-component system. When laid, it provides a hard but flexible coating with excellent adhesion to clean concrete,

sand/cement and garnolithic screeds, and certain metal surfaces. It cures to a semi gloss, impervious finish which is easily cleaned. It can be made available in a range of standard colors on request.

Specification

The epoxy based coating shall be EmO Guard FC 140, a two component solvent based epoxy suitable for application by spray, brush or lambswool roller. The total dry film thickness of the coating shall be a minimum of 90 microns in two coats (w.f.t 100 microns/coat).

Typical Properties

The values given below are average figures achieved in laboratory tests. Actual values obtained on site may show minor variations from those quoted.

	@ 23 ⁰ C	@ 35 ⁰ C
Complete Cure	: 7days	5 days
Pot life	: 4 hrs	1.5 hrs
Tack free time	: 4-6 hrs	2-4 hrs
Wet Film Thickness	: 100 microns	
Total dry film thickness	: 90 microns	
Water absorption	: Nil	



Chemical Resistance

EmO Guard FC 140 is resistant to spillages of the following

Acids (m/v)

HCL 10%	:	Resistant
H2SO4 10%	:	Resistant
Citric Acid 10%	:	Resistant
Lactic Acid 10%	:	Resistant

Aqueous solutions

Water (tap, distilled, potable):	Resistant
Sodium chloride (sat) :	Resistant
Urea solution (Sat) :	Resistant

Good housekeeping is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage should not be allowed to dry since very much higher concentrations of chemicals will then result

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: Ensure the concrete foundation surface is dimensionally stable and free of dirt, dust, oil, laitance, paint, curing compounds etc. Bolt holes and fixing pockets should be free from any dirt or debris. If possible a roughened surface is preferable to smooth surfaces. Metal surfaces must be free

from rust, loose scaling and paint. Shuttering should be covered with polyethylene to ensure a clean release.

Priming

All surfaces should be primed with EmO Guard GP Primer designed for maximum absorption and adhesion to concrete and steel substrates.

Mixing: Do not commence mixing until all surface preparation, cleaning and shuttering is complete. **EmO Guard FC 140** is supplied in pre-weighed units. Add the reactor to the base in a suitable forced action mixer; alternatively use a slow speed drill and paddle. Continue mixing until a completely homogenous material is obtained.

Placing: Ensure that sufficient mixed material is available to complete the work and achieve a continuous filling operation.

The first coat of EmO Guard FC 140 should be applied using airless spray, brush or lamb's wool roller suitable for epoxy application. A minimum wet film thickness of 100 microns should be applied. When the base coat has reached initial cure, the top coat can be applied at minimum film thickness of 100 microns. Care should be taken to ensure that a continuous film is achieved.

Equipment care

Clean all equipment promptly using **ELMIERE Solvent EP**. Cured material will have to be mechanically removed.

Packaging & Storage

EmO Guard FC 140 is available in factory, pre-weighed units of 5 liters. It has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Coverage

10 m²/liter @ 100 microns wft

Health & Safety

Precautions

EmO Guard FC 140, EmO Guard GP Primer and ELMIERE Solvent EP should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves, eye protection and vapour respirators. 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.

For further information refer to the Material Safety Data Sheet available for this product.

FIRE

EmO Guard FC 140, EmO Guard GP Primer and ELMIERE SOLVENT EP are flammable. Keep away from sources of ignition. No smoking. **In the event of fire extinguish with Co2 or Foam. Do not use a water jet.**

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 Elmer 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.

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