



EmO Guard G F

Solvent free epoxy resin floor coating reinforced with glass flakes which provides excellent resistance to abrasion and Impact.

Uses

EmO Guard GF is a solvent free epoxy floor coating reinforced with glass flakes. It protects steel from corrosion and provides excellent resistance from impact and abrasion for floors subject to heavy vehicular traffic.

- Schools and hospitals
- laboratories
- Car park decks
- Car park ramps
- Aircraft hangars
- Transport depots
- Service centres, garages
- Workshops

Typical Applications & Advantages

- Suitable for all zones in a car park
- Seamless and water tight
- Rapid application, reliable and safe
- High gloss and easy to clean

Standards compliance

Resistant to a variety of organics and solvents (ASTM C 957) like petrol, diesel, skydrol, brake fluid, engine oils and Kerosene. Comply with ASTM D 412 for pull off test.

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.

Complete cure	@25°C @35°C
	: 7days 5 days
Tensile Strength	@25°C 7 days
	: 15N/mm ²
Elongation	: 80%
Tear Resistance	: 25 N/mm
Water absorption	: Nil
Shore A hardness	: 85
Over coating time at 35°C :	3 hours

Chemical Resistance

EmO Guard Glass Flake is resistant to a wide range of chemicals

Acids (m/v)

HCL 25%	: Resistant
H2SO4 25%	: Resistant
Citric Acid 25%	: Resistant

Acetic Acid 10%: Resistant

Alkalis (m/v)

NaOH 50% : Resistant

KOH : Resistant

Solvents & Organics

Petrol : Resistant

Skydrol : Resistant

Diesel : Resistant

Brake fluid : Resistant

Engine oil : Resistant

Ethylene glycol : Resistant

Propylene glycol : Resistant

Kerosene : Resistant

Aqueous solutions

Water (tap, distilled, potable): Resistant

Sodium chloride (sat) : Resistant

Urea solution (Sat) : Resistant

Technical Support

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

Instructions for Use

Surface Preparation:

New concrete surfaces should have reached 80% of their intended physical properties – generally only achieved after a minimum curing period of 28 days. Existing concrete

Surfaces must be prepared to provide a clean sound substrate. 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. Grit blasting can be adopted if necessary. Shuttering should be covered with polyethylene to ensure a clean release.

Limitations

EmO Guard Glass Flakes should not be applied on to surfaces which are known to or likely to suffer from rising damp or have a relative humidity greater than 80% as measured in accordance with BS 8203 Appendix A or by Hammond concrete/mortar moisture tester type COCO.

In conditions of high relative humidity i.e. 85-90%, good ventilation conditions are essential. Substrate temperature should be at least 3°C above dew point.

Do not proceed with application if precipitation is imminent, or temperature is expected to drop below 7°C within 24 hours of application.

High temperature working

It is suggested that, for temperature above 35°C, the following guidelines are adopted as good working practice:

- i. Store material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- ii. Keep equipment cool, arranging shade protection if necessary. It is

- iii. especially important to keep cool those surfaces of the equipment which will come in direct contact with the material itself.
- iv. Try to eliminate application during the hottest times of the day.
- v. Make sufficient material, plant and labour available to ensure that the application is a continuous process.

Mixing: Do not commence mixing until all surface preparation, cleaning and shuttering is complete. **EmO Guard Glass Flake** 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.

Application

Primer

Apply EmO Guard MP Primer to the prepared surface at an application rate in the range of 0.1 to 0.2 ltr/m². Quantity will depend on surface texture and porosity.

Topcoat

Apply EmO Guard Glass Flakes topcoat to the primed surface at an application rate of

0.2 to 0.3 ltr/m² to achieve a wet film thickness of 300 microns

Prior to trafficking allow the following cure periods:

Foot traffic: 24 hrs@25^oc or 18 hrs@35^oc

Vehicle traffic: 5 days@25^oc or 72 hrs at 35^oc

Estimating

Supply

EmO Guard MP : 5 litre pack

EmO Guard Glass Flake : 5 litre pack

Coverage

Primer : 0.1 to 0.2 ltr/m²

Glass Flake : 0.2 to 0.3 ltr/m²

System Thickness

EmO Guard MP : 100 microns

EmO Guard Glass Flake : 300 microns

Equipment care

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

Health & Safety

Precautions

EmO Guard Glass Flake 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 endeavours 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 labour 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.

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

www.elmrr.com