



EmO Guard HT 150

Highly chemical and temperature resistant, Heavy Duty polyurethane coating for Steel and Metal Surfaces

Uses

EmO Guard HT 150 is a polyurethane based solvent free, coating for metal substrate. It provides a hard wearing, chemical, temperature and abrasion resistance finish. It can have a service temperature ranges from -50^oc to 130^oc. It is ideally suited for use in areas where a high degree of resistance to chemicals, oils and greases are required such as

- Transformers
- Electrical Equipment's
- Pharmaceutical plants
- Chemical manufacturing plants
- Refrigerated stores
- Textile manufacturing areas

Typical Applications & Advantages

- Suitable for service range from -50^oc to 130^oc
- Excellent mechanical properties
- High impact and abrasion resistance
- Resistant to thermal shock
- Resistant to intermittent live steam or hot water cleaning
- Seamless and water tight
- Rapid application, reliable and safe

Product Description

EmO Guard HT 150 is a solvent free polyurethane based coating designed for application depth of 0.1 mm. the system is

formulated specifically to withstand thermal shocks, freeze/thaw cycles and chemical attack. The product is supplied as a two component system, pre-weighed for on-site mixing.

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.

Tensile Strength	:	16N/mm ²
Flexural Strength	:	30N/mm ²
Impact Resistance	:	Excellent
Resistance to fungal growth	:	Passes
Water absorption	:	Nil
Shore D hardness	:	80
Pot life	:	30Min@30 ^o c
Initial Cure	:	8 Hours@25 ^o c
Complete Cure	:	7days@25 ^o c

Technical Support

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

Chemical Resistance

EmO Guard HT 150 will resist spillage of the following chemical solutions at 25⁰c.

Inorganic

Sodium Hydroxide 40%, Sodium Chloride (sat), Chlorine Water

Organics

Glucose Syrup (sat), Sugar solution (sat)
Citric Acid (10%), Tartaric Acid (10%)
Nicotinic acid (10%)

Electro chemical Solutions

Copper Sulphate 1M
Zinc Sulphate 1M

Fuels

Petrol, Diesel, Engine Oil, Hydraulic oil
Brake Fluid, Coolant, Skydrol, Transformer Oil

Directions for Use

Surface Preparation

Ensure the 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. A roughened surface is preferable to a smooth surface. Metal surfaces must be free from rust, loose scaling and paint. Shuttering should be covered with polyethylene to ensure a clean release.

Mixing

Do not commence mixing until all surface preparation, cleaning and shuttering is complete. **EmO Guard HT 150** is supplied in pre-weighed units. Add Part A (Base) to Part B (Hardener) 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, a two component solvent free epoxy Primer to the prepared surface at an application rate of 0.05 ltr/m², Quantity will depend on surface texture and porosity. Allow it to cure for 16 hours @ 25⁰c.

EmO Guard - HT 150

Apply EmO Guard – HT 150, a solvent free, two components, polyurethane coating to the primed surface at an application rate of 0.05 ltr/m² to achieve a thickness of 0.05 mm. It should be spread to the required thickness using a good quality medium haired pile roller, suitable for epoxy application, Ensure that loose hairs on the roller are removed before use. A minimum film thickness of 50 microns should be applied. This can be increased where specifications demand. When the base coat has reached initial cure, the top coat can be applied by medium haired roller, at minimum film thickness of 50 microns. Care should be taken to ensure that a continuous film is achieved.

Estimating

Supply

EmO Guard MP primer : 5 liter

EmO Guard – HT 150 : 5 liter

Coverage

Primer :0.05 to 0.075 liter/m²

EmO Guard HT 150 : 0.05 liter/m² @ 50
microns

Equipment care

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

Health & Safety

Precautions

EmO Guard products 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

EmO Guard HT 150 - Flammable
ELMIERE Solvent EP - Flammable

Manufactured By:

ELMRR CONSTRUCTION CHEMICALS

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