

EmO Guard NOVA - HT

**Highly chemical and temperature resistant,
 Heavy Duty 1 to 2 mm thick, polyurethane
 based Self Level floor topping**

Uses

EmO Guard NOVA-HT is a polyurethane based solvent free, self-level floor topping for concrete substrate. It provides a hard wearing, chemical, temperature and abrasion resistance floor 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 is required such as

- Dairies & Sea food processing areas
- Soft drink production facilities
- 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
- Unaffected by freeze/thaw cycles
- Seamless and water tight
- Rapid application, reliable and safe

Product Description

EmO Guard NOVA - HT is a solvent free polyurethane based self leveling system

designed for application depth of 1 to 2 mm. the system is formulated specifically to withstand thermal shocks, freeze/thaw cycles and chemical attack. The product is supplied as a three 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.

Compressive strength	:	80N/mm ²
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
Foot Traffic	:	24Hours@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 NOVA - HT 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%)

Alcoholic beverages

Wine, Brandy, Beer

Carbonated Beverages

Pepsi/ Coca Cola, Mirinda/Fanta
 All others

Electro chemical Solutions

Copper Sulphate 1M
 Zinc Sulphate 1M

Fruit Juices & Sea Foods

All fruit juices and Fats

All sea foods, poultry, Meat

Fuels

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

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. 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 Nova - HT** 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. Add Part C (Powder) to the above and continue mixing, until a 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 0.1 ltr/m², Quantity will depend on surface texture and porosity. Allow it to cure for 16 hours @ 25⁰c.

EmO Guard NOVA - HT

Apply EmO Guard NOVA - HT, a solvent free, three components, Self-level polyurethane floor topping to the primed surface at an application rate of 1 ltr/m² to achieve a

thickness of 1 mm. It should be spread to the required thickness using a notched trowel; with care taken not to overwork the resin, spreading evenly and slowly.

Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended. Further light rolling may be required to remove surface imperfections, or for subsequent release of trapped air, but should be prior to the setting of the product.

Estimating

Supply

EmO Guard MP primer : 5 litre

EmO Guard NOVA - HT : 10 litre

Coverage

Primer : 0.075 to 0.1 ltr/m²

EmO Guard NOVA : 1 ltr/m² @ 1mm

Equipment care

Clean all equipment promptly using **ELMRR Solvent No.1**. Cured material will have to be mechanically removed.

Health & Safety

Precautions

EmO Guard NOVA 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.

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