

EmO Guard NOVA - TF

Highly chemical, steam and hot water resistant, Heavy Duty 3 to 10 mm thick, polyurethane based floor screed

Uses

EmO Guard NOVA -TF is a heavy duty floor screed for high impact, abrasion, chemicals and thermal shock resistance. The thermal stability and chemical resistance makes it suitable for use in food processing areas, cold stores, freezer rooms, kitchen, seafood and meat processing areas. It is particularly used in areas where steam or hot water is used for cleaning on a regular basis.

It is an ideal product for application in:

- Dairies
- Soft drink production facilities
- Pharmaceutical plants
- Chemical manufacturing plants
- Refrigerated stores
- Textile manufacturing areas
- Sea food processing areas

Typical Applications & Advantages

- Suitable for service range from -45⁰c to 120⁰c
- 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 - TF is a solvent free polyurethane based floor screed system designed for application thickness between 3 to 10 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	: 100N/mm ²
Tensile Strength	: 16 N/mm ²
Flexural Strength	: 25 N/mm ²
Impact Resistance	: Excellent
Resistance to fungal growth	: Passes
Water absorption	: Nil
Resistance to temperature	: 120 ⁰ c
Abrasion Resistance	: 0.05 gm
Pot life	: 30Min@30 ⁰ c
Foot Traffic	: 24Hours@25 ⁰ c
Complete Cure	: 7days@25 ⁰ 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 - TF 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 - TF** 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. While still wet, dress the surface with anti-slip grains.

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Apply EmO Guard NOVA – TF, a solvent free, three component Polyurethane floor screed to the primed surface when the primer is in a tacky condition. It should be spread to the required thickness using a plastic trowel and

tamped with a wooden float and finally finished to a closed even texture using a steel trowel.

Estimating

Supply

EmO Guard MP primer : 5 litre

EmO Guard NOVA - TF : 12 litre

Coverage

Primer : 0.1 to 0.2 ltr/m²

EmO Guard NOVA : 3 ltr/m² @ 3mm

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 range 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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