

Estotect EN600

Chemical Resistance Solvent Free Novalac Epoxy Coating / Lining

Description

Estotect EN600 is a chemical resistant, 100% solids low odour epoxy coating system. It is a 2-parts resin binder designed for use as a seamless chemical resistant topping up to a total thickness of 500 microns with multiple layers. With its chemical resistant qualities, this system meets the chemical exposure required in the industrial sector.

Uses

Suitable for chemical manufacturing plants, food processing, laboratories, hospital clean room, breweries, wastewater treatment plants, desalination plants, chemical storage warehouse, pulp & paper mills, showrooms, petroleum refineries and other industrial sectors where chemical resistance is required.

Advantages

- 100% solid, no solvents
- Excellent abrasion, impact and thermal shock
- High bonding strength
- Low permeability to water and chloride ions.
- High chemical resistance
- Low odour and food grade

Physical Properties

Finish	Gloss
Volume Solids	100%
Colour	Available in Standard Flooring color sand in clear. Other colour can be matched upon request
Component	2
Full Cure	7 days @ 25°C
Pot-Life@25°C	25 – 30 minutes
Tensile strength	>12 MPa
Compressive Strength	>45 MPa
Bond Strength	Concrete Failure
Shore D Hardness	70 - 75
Taber Abrasion (ASTM D4060)	CS 17 wheels, 0.1gm/ 1000gm loading /1000 rpm
Flash Point	Base :105°C Hardener : 100°C
Temperature Resistance	80°C
Recoating Time	4 – 18 hrs @ 25°C

Chemical Resistance

The fully cured coating is resistant to the splash/spillage of the following chemicals:

- Acetic acid 30%
- Ammonium hydroxide
- Benzene
- Benzoyl chloride
- Benzyl alcohol
- Ethylene glycol monoethyl
- Bleach (sodium hypochlorite)
- Boric acid
- Brake Fluid
- Brine 30%
- Citric Acid, 10%
- Car oil
- Carbon tetrachloride
- CASTOR OIL
- Deionised water
- Diesel fuel
- Diethanolamine
- Ethylene glycol
- Fatty Acids
- Formaldehyde 40%
- Gasoline
- Hydrochloric acid 35% & 25%
- Hydrogen peroxide, 100% sol
- Hexamine 25%
- Hexane
- Hydrazine
- Jet fuel
- Isopropanol
- Kerosene
- Lactic acid 10%
- Methyl isobutyl ketone
- Mineral spirit
- Nicotinic acid
- Nitric acid 30%
- Phosphoric acid 50%
- Potassium hydroxide
- Propylene glycol
- Sea water
- Skydrol
- Sodium hydroxide, 70%
- Sulfonic acid
- Sulphuric Acid, 25%
- Tartaric acid 50%
- Toluene
- Vegetable oils

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Application Instruction

Surface Preparation

NEW CONCRETE: The surface must be firm, dry, clean, and free of dirt, oil, grease and all foreign matter. The concrete must be age at least 28 days before coating. Mechanical methods such as sand blasting, scarifying or shot-blasting should be carried to remove the weak layer or surface laitance.

EXISTING CONCRETE: The surface must be structurally sound, dry and free oil of all contaminants. Weak or contaminated concrete must be removed until sound concrete is realized. Old coatings, toppings, waxes, oils etc must be removed by mechanical methods or acid etching before printing.

Priming

Apply 1 coat of **Estoprime LV**. Allow to dry overnight before applying the final topping.

Application Procedure

Mixing

Mix contents thoroughly to obtain a uniform consistency before using. Pour the contents of Hardener into the Base container while under agitation. Mix the material for 2 – 3 minutes until homogenous. Do not use the mixed material beyond recommended pot life of 30 minutes maximum. Temperatures ABOVE 30°C will shorten pot life. Do not apply over moisture, in dampness or in temperatures below 7°C.

Application

After mixing of the 2 components, the material is poured onto the floor and spread with a short-nap roller, notched trowel, screed raking or with a squeegee to achieve the required thickness.

Systematically spike roll to remove trowel mark sand entrapped air, producing a smooth and consistent film when cured. As with a coating system, apply second coat after overnight curing.

Packing Size

Estotect EN600	5kg and 20kg pack
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Coverage

Estotect EN600 (Theoretical Coverage)	Approx. 4.0 m ² / kg / coat @150μ (DFT)
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Theoretical coverage is quoted for guidance. Practical coverage may be lower, depending on substrate and application method.

Cleaning

Wash all equipment with thinner after used.

Technical Support

Denka offers a technical support package to specifiers, end-user and contractors, as well as on-site technical assistance.

Storage

Estotect EN600 has a shelf life of 12 months in unopened containers, kept in a dry store. In high humidity locations, the shelf life may be reduced.

Precautions

Estotect EN600 contains epoxy resin and amines. Do not take internally. May irritate eyes and skin. Protective clothing and gloves are recommended to prevent sensitization to this material. In case of eye contact, flush with soap and clean water and seek medical attention immediately. Close container tightly and wash hands after use. Keep out of reach of children. MSDS are available upon request.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd offer a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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