

ECMAGUARD 401

Food Grade Solvent Free Epoxy Coating

Description

ECMAGUARD 401 is a two component, solvent free, 100% solids, food grade, high build Epoxy Coating meant for Potable Water Tanks, pipelines, reservoir, etc. ECMAGUARD 401, a fast-drying epoxy coating is formulated with special grade resin, hardener, non-toxic pigment & additives designed for permanent water contact and is an effective seamless waterproof layer providing long term protection to steel and concrete substrates. Available in wide range of colors.

Areas of Application

- Potable water storage concrete tanks (overhead & underground)
- Process water tanks, and steel tanks & pipelines
- Dairy, Breweries, Meat & Food processing plants
- Coffee/ Tea processing units
- Pharma industries, Laboratories
- Reservoirs, Swimming Pools, Fish ponds, etc.

Advantages

- Can be applied by brush or roller
- Very good moisture barrier property
- Solvent free, Contains no VOC i.e. a GREEN PRODUCT
- Excellent adhesion on concrete and steel surfaces
- High-build, higher DFT in single coat to avoid multiple coats
- Cured Film is seamless, hard and abrasion resistant
- Water impermeable and corrosion resistant
- Hygienic - cured surface is tough, smooth & easy to clean
- Long service life

Technical Specifications

Appearance of cured Film	Grey/Off white
Mixing ratio Pack A:Pack B	4:1
Specific Gravity at 27°C	1.350±0.10
Solid Content	>98%
Pot life at 27°C	30-50 Minutes
Initial Cure	24 Hours
Final Cure	7 Days
Recoating Time Interval 27°C	20-24 Hours
Recommended no of coats	2
Coverage	6-8 m ² /Kg/per coat at 100 Microns DFT
Min. Application Temperature	10°C



Application Instruction

Surface Preparation:

Concrete Surfaces: Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. Before applying ECMAGUARD 401, it is important to remove/clean loose particles, flaky material, dust and grease from the surface by chipping and washing with suitable equipment such as high - pressure air, water, or wire brush. Treat cracks, construction joints, pin-holes, depressions, etc. in base surface with Epoxy putty. Use Epoxy Primer ECPRIME EP-SF for better adhesion. Ensure surface moisture content is not more than 5% prior to application.

Steel surfaces: All steel surfaces should be grit blasted to achieve bright metal surfaces, free from flaky materials, rust, etc. The newly cleaned steel should be coated as soon as possible before the formation of rust or scale.

Priming

Surface priming with ECPRIME EPSF is recommended for excellent adhesion with concrete/ steel surfaces, it can be applied by stiff brush or roller.

Mixing

ECMAGUARD 401 packs are supplied in pre-measured mixing ratio. A suitable power-driven mixer/ stirrer is recommended for uniform mixing of ECMAGUARD 401. Stir the base and hardener separately. Add entire quantity of hardener into the base and stir well till a uniform color is achieved. Care should be taken to scrape the sides and bottom of the container. Wait for 5 minutes for induction and to release entrapped air from the epoxy mix. Remix the mass again before applying it. All packs are pre weighed and ready for onsite mixing. Do not dilute with any solvent.

Application

The product may be applied by a soft nylon brush or roller. If the concrete surface is very porous, more than two coats may be required to seal all surface pores otherwise air bubbles may appear on the next coat. While application, the substrate temperature not above 35°C.

Packaging

ECMAGUARD 401 Pack Size- 5 Kg (Pack A- 4 kg and pack B- 1 Kg)

Precautions

- Mix only sufficient quantity of material which can be consumed in 30-40 minutes at temperatures range around 20-30°C
- Do not apply if rain is expected within 24 hours
- Do not dilute with water or any solvent and do not apply on wet surfaces.
- Clean all the equipment with Xylene or cleaning Agent.

Shelf Life

12 Months, if stored between 5°C and 30°C in original unopened sealed condition.

Storage & Handling

Material should be stored in Cool and Dry shade at temperatures between 5°C and 30°C. Also protect it from direct sunlight. Please avoid stacking of Corrugated boxes and handle carefully during transport.

Safety Precautions

Wear all PPE's at the time of application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoid contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with plenty of water and medical advice shall be sought immediately. If swallowed medical attention shall be sought immediately

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