EPU E200

EPOXY COATING

Description

E200 is a two-component, solvent-free, epoxy coating available in unlimited colours. **E200** provides extremely high mechanical resistance within a smooth or rough floor finish, works both on floor and walls. Can be used for civil and industrial environments like for floors in the food, pharmaceutical and butchery industries, laundries, workshops, garages, garages, road and hydraulic works, cellars, hospitals, canteens, laboratories, nuclear power plants, bridges, ramps, etc.
Recommended for moisture surface use.

Features

- Adheres perfectly on new and old concrete, also on bricks and wood
- Excellent impact resistance, no formation of cracks
- Waterproof, but permeable to vapour
- Good compressive strength
- Very low thermal and acoustic conductivity
- Resistant to acids, alkalis, and many other chemical aggressive
- Application temperature +10°C to +40°C with relative humidity <85%

Fields of application

E200 offers excellent protection for new or old concrete. Suitable for use in direct exposure and secondary containment areas in manufacturing facilities, warehouses, laboratories, dairies, breweries, chemical plants, paper mills, hospitals, ramps, hospitals, food processing and pharmaceutical manufacturing.

Application guidelines

E200 can be applied with roller or spray on existing resin surfaces, concrete, stones and wood.

a) Substrate Preparation

Surface must be clean, grind and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. “Over-blasting” will result in reduced coverage rates of the primer and/or subsequent topcoats. The “shotblast” pattern may show through the last coat, known as “tracking”. The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application.

b) Preparation of the product

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.
It is important to remember that this coating has a limited pot life, thus mix only the quantity that can be used within its pot life. Do not leave the mix in the container too long because it will shorten its pot life.

c) Application

Apply **E200** with a short roller or sprayer, usually in a 2 coat application. 2-5% of water or ethanol can be added, depending on the application. Protect the film from water for the first 15-20 hours.

Handling and storage

E200 can be stored for 12 months in its original packaging in a dry place at a temperature between +5°C and +35°C.
Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA		
COLOR	RAL	STANDARDS
POT LIFE AT 20°C	60 MINUTES	EN ISO 9514
DENSITY	1,20 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	37 / 100	-

VISCOSITY AT 20°C	2250 +/- 500 mPa·s	UNI EN ISO 2555
NON-VOLATILE-MATTER CONTENT BY WEIGHT	56%	EN ISO 3251
PULL-OFF STRENGTH ON CONCRETE	>3,5 MPa	ASTM D4541
ABRASION RESISTANCE	<70 mg	UNI 8298-9 Wheel CS10 1000g, 1000 cycles
CURE RATE Touch dry / Complete curing	6h / 7 days	77°F / 25°C

CHEMICAL RESISTANCE		
GOOD RESISTANCE	**LIMITED RESISTANCE**	**LOW RESISTANCE**
Water	Diluted acids	Chloroform
Ammonia	Diluted organic acids	Methyl chloride
Alkaline compounds	Aromatic compounds	Acetone
10% sodium hydroxide	Alcohols	Concentrated nitric acid
25% hydroxide	Ketones	Concentrated sulphuric acid
Salt solution	Carbon Tetrachloride	Concentrated organic acids
Fat	Esters	10% hydrocholic acid
Mineral olils	Hydrocarbons	10% acetic acid
Vegetable oils	Brakes oil	5% acetic acid
Turpentine	Distilled water at 70°C	10% nitric acid
Petroleum	25% ammonia	10% sulphuric acid
Kerosene		5% lactic acid
Glycerin		1% formic acid
Diesel oil		
Alipatic compounds		
Teepol detergent		
Xylene		
Flaxseed oil		
Perchloroethylene		
Antifreeze salts		
Distilled water		
Acrylic dispersions		