Edison Coatings, Inc.

AQUEPOXY 250

HIGH-PERFORMANCE WATERBORNE EPOXY COATINGS

DESCRIPTION:

AQUEPOXY 250 HD is a two-component, waterborne epoxy coating system designed for heavy commercial and industrial applications. Applications include both vertical and horizontal concrete surfaces, steel, galvanized metal, ceramic glazes, aged previously applied alkyd and epoxy enamels, and aluminum.

Two grades are available: ***HD*** (Immersion Grade) and ***250-S30*** (Sealer).

***HD* Immersion grade** (Clear or Pigmented) may be used for surfaces subject to heavy traffic, prolonged or continuous submersion, and harsh chemical exposures. It is supplied in 3-gallon units at a 1:2 mixing ratio. **Not recommended for above water, direct UV exposure.**

***250-S30* Sealer grade** (Clear) is supplied in 5-gallon units (1:4 mixing ratio) and is useful for a wide range of commercial and industrial applications.

AQUEPOXY 250 offers high gloss, hardness, and chemical resistance, making it a truly practical alternative to solvent-borne epoxies in heavy commercial and industrial applications. Both the clear and white base formulations are USDA accepted for use on incidental food contact surfaces such as floors and machinery in Federally inspected meat and poultry packing plants.

FEATURES:

- Low odor and toxicity
- Low volatile organic content (VOC< 250)
- Cures despite high humidity, dampness
- Water clean-up
- No flash rusting on untreated steel
- Hardness and solvent resistance
- Fast cure
- Non-flammable, Non-corrosive
- Non-carcinogenic
- D.O.T. Non-hazardous
- USDA Accepted

CHARACTERISTICS:

PROPERTY	250-HD	250S-30
Mix Ratio	1:2 by volume	1:4 by volume
Pot Life	25-40 mins. at room temp.	1 hr. at room temperature
Solids Content	80% (Color) 66% (Clear)	30% by weight
Colors	Off-white, clear, custom colors	Clear
Packaging	Pre-measured 3-gal. unit	Pre-measured 5-gal. unit
Gloss	92 (60^0 specular gloss)	
VOC Content	Approx. 0.75 lb/gal. (87 g/l); Easily complies with 250 g/l limits.	

CHEMICAL RESISTANCE:

(12 Weeks submersion at 73^0F)

EXPOSURE	REACTION
Sea Water	No Effect
10% NaOH	No Effect
Xylene	No Effect
10% H2SO4	Slight Blistering

Above data for Immersion grade ***AQUEPOXY 250 HD***.

APPLICATION:

1. SURFACE PREPARATION:

Apply ***AQUEPOXY 250*** to clean, damp or dry substrates, free of grease, oil, dirt, or any other material which may hinder penetration. Remove any such contaminants by an appropriate procedure such as abrasive or chemical cleaning. Chemical washing, if selected, should only be performed using cleaning agents which leave no

residues or excess acid or alkali following final rinsing. For manyapplications, ***E-Wash 30*** cleaner/degreaser may be considered. For steel, sandblasting is required, and an anti-corrosion primer may be needed. Previous coatings should be tested forcompatibility, with bond strength testing according to ASTM D4541, prior to large scale application.

2. MIXING:

Pour the contents of Part A - Resin and Part B - Hardener into a clean mixing container and mix for at least three minutes using a slow speed drill mixer (250 rpm) and a flat paddle. Carefully scrape sides and bottom of container while mixing and avoid whipping air into the mixture. In pigmented formulas, it may be necessary to agitate Part A prior to mixing, making certain that all pigments are dislodged from the container walls and bottom. Whenever possible, mix complete units. If necessary, partial units may be used, but it is essential that components be measured carefully and consistently according to volume proportions.

3. APPLICATION:

Product may be applied to dry or damp surfaces, but not over saturated surfaces or standing water. On some surfaces, product may spread and flow more evenly if slightly thinned using a small quantity of water (no more than 6 ounces per gallon). Alternatively, porous surfaces may be dampened slightly with water to reduce suction.

Apply evenly and moderately at 100 sq. ft. per gallon, using brush, roller, or low-pressure airless spray. The most common application on concrete flooring is usually done by roller with ½" nap size.

Do not attempt to re-work areas which have partially set. Any material which has not been applied within 40 minutes of initial mixing at room temperature should be set aside, allowed to harden, andthen disposed of in accordance with local regulations.

Most applications will require two coats. A second coat may be applied at any time after the first coat has cured to a "tack-free" state, preferably within 48 hours after first coat application. If re-coat is delayed beyond 48 hours, light sanding or solvent wiping may be required.

4. CURING:

CAUTION! KEEP FROM FREEZING. Do not apply at temperatures below 40^0F or when temperatures will drop below 40^0F within 24 hours. Do not apply under extreme high humidity, such that condensation may form on uncured product. Product, substrate, and air temperatures must all be considered when working at conditions close to these limits. At 75^0F, product is ready for light traffic in 8-12 hours, moderate traffic in 18 -24 hours. Full cure is nominally 5-7 days. Do not submerge for at least5-7 days.

HANDLING & SAFETY:

May cause eye injury, skin irritation, sensitization, and allergic responses. Consult Safety Data Sheets supplied with this product for appropriate handling procedures and protective equipment.

Clean up overspray and equipment immediately using hot water and mild detergent.

FOR COMMERCIAL AND INDUSTRIAL USE.

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