ZeraStout ™ EW

Fast-Setting Exterior Non-Slip Waterborne Epoxy Coating

DESCRIPTION

ZeraStout™ **EW** is a fast-setting, non-slip, two-component waterborne epoxy coating. Applied on interior or exterior concrete floors, walls or ceilings, it hardens to a tough, matte finish with good wearing properties. It is specially formulated based on cutting-edge technology, to create a unique microporous coating that is breathable and water vapor permeable, preventing delamination and blistering.

ZeraStout™ **EW** is a self-priming, high solids coating, that is applied over a prepared concrete surface in a **one coat application (4-5 mils dry film thickness)** with the ability to hide imperfections. It is based on nano technology that blocks the harmful UV radiation from damaging the coating, thus allowing it to be used on exterior concrete slabs. It provides an attractive, uniform, durable non-slip barrier that is able to protect the concrete slab from freeze-thaw, rain and snow.

ZeraStout™ **EW** can be applied on damp or fresh (7 day old) concrete. It is based on our unique fast-setting advanced waterborne technology. This means that floors can be coated and returned to service quickly. Good early water resistance and fast drying properties provide fewer concerns for unexpected rain after the application.

WHERE TO USE

ZeraStout™ **EW** is primarily designed for waterproofing balcony decks in condominium and apartment buildings. It can also used over concrete patios, stairs and sidewalks. It is also suitable for slab-on-grade concrete floors, concrete plaques, foundation walls, pedestrian ramps, swimming pool decks and basement floors.

BENEFITS

- Odourless, safe, non-toxic and has a low VOC
- No induction; just mix and apply
- Applied in a one coat application; excellent hiding to the imperfections on concrete floors
- Uniform non-slip finish (with non-slip additives); offers great resistance to slippage, yet is easy to walk on
- Adheres firmly to the properly prepared concrete slab, thus generating a long-lasting bond
- Excellent adhesion to damp concrete or fresh concrete (7 days cure)
- Outstanding durability
- Impervious to water and/or chloride penetration
- High permeability; 100 times greater than solvent-based or 100% solids epoxy coatings
- Fast drying with a rapid release of water
- Can be re-coat in 5 hours, thus saving time
- Hot tire pick-up resistance
- Cures down to 5˚C (41˚F)
- Non-yellowing and stain resistant
- Good colour stability; superior to 100% solids epoxies
- Contains an anti-mildew additive
- Resistant to water, oil, caustic and common chemicals
- Does not peel or disintegrate like alkyd or latex paints
- Freeze-thaw stable
- Easily repaired if damaged
- Easy clean up of tools with water

Handling Properties:

All tests are conducted @ 23˚C (74˚F)

Mixing Ratio, (by volume)	3 Part A : 1 Part B
Viscosity, (Mixed) Colored	15,000 cps (thixotropic)
Solids Content for coloured (by volume)	60 %
(by weight)	70%
Pot Life	1 hour
Mixed Weight (Density)	1.32 kg/litre (11.0 lb/ US gal)
Application Temperature	5˚C- 30˚C (41˚F-86˚F)
Thin Film Set Time (Re-coat Time)	5 hours
Foot Traffic	5-6 hours
Full Cure	7 days

DATA - Cured Film

Pull Out Tensile Adhesion, (to epoxy coating) (ASTM D4541)	3.5 MPa (500 psi)
Abrasion Resistance (ASTM D4060) (Taber Abrasion, CS-17 Wheel, 1000 Cycles)	83 mg loss

All tests are conducted after 7 days cure @ 23˚C (74˚F)

APPLICATION

SURFACE PREPARATION

New concrete must be cured for a minimum of 7 days before applying **Zera**Stout™ **EW**. The substrate must be above 5˚C (41˚F) and must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any other foreign matter that may interfere with the bonding of the coating to the substrate. Cracks and surface defects should be repaired prior to the application of the coating. Concrete surfaces to be coated should be shot blasted or mechanically cleaned to provide a clean tooth for the coating. If acid etching is the method of choice for preparation of the concrete surface, we recommend using citric acid and ensuring that the etched surface be

thoroughly flushed and dried prior to application of the coating. The white citric acid powder is available through food suppliers. It is a non-toxic acid that can be washed down the drain.

MIXING
The mixing equipment used to mix the coating must be clean and free of any contaminants that may be present in the equipment from previously used products. Precondition the coating at a temperature of 20-25˚C (68-77 ˚F) for 16 hours or so before applying. Mix component A first to eliminate the possibility of settlement. Pour all of the liquid from Part B into Part A. A 'Jiffy Mixer' or a mud mixer blade on a slow speed drill is the preferred method of mixing. Mix the blended components for 2 minutes.

APPLICATION
ZeraStout™ **EW** is a self-prime coating. It is recommended in a one coat application. However, a second coat may be necessary for heavy-duty applications or where the concrete substrate is highly porous.

Pour a workable amount of the mixed coating into a paint tray and apply the material evenly with a roller just like paint using a lint-free 9 mm nap roller. Avoid allowing the coating to puddle in a low lying areas, as this may cause the occurrence of softening, lifting and discolouration.

LIMITATIONS
- May slightly discolour upon exposure to direct sun light for extended periods of time
- Do not hand-mix the product; mechanical mixing must be used
- Do not use a squeegee to apply the coating
- **Zera**Stout™ **EW,** applied at a thin coat, does not bridge post-application concrete cracks
- Not recommended for floors subjected to vehicular or heavy-duty traffic
- Protect from rain until dry (at least for 6 hours) @ 23˚C (74˚F)
- It takes a longer time to dry (cure) at lower temperatures or at high levels of humidity

COVERAGE
4.9-5.9 m²/L (200-240 ft²/U.S. gallon), depending on the porosity of the concrete substrate
2nd coat (if required): 8.0 m²/L (325 ft²/U.S. gallon)

PACKAGING
3.79 litre (1 U.S. gal) unit
15.2 litre (4 U.S. gal) unit

CLEAN UP
Clean all equipment with potable water prior to material set.

STORAGE
Protect from freezing. Store under normal heated warehouse conditions. If frozen, discard.

SHELF LIFE
6 months in original unopened container under normal heated warehouse conditions.

SAFETY PRECAUTION
Consult Material Safety Data Sheet (MSDS) for specific instructions.

WARRANTY
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