ZeraStout™ EW

Fast-Setting Exterior Non-Slip Waterborne Epoxy Coating

DESCRIPTION

ZeraStout™ EW is a fast-setting, non-slip, two-component waterborne coloured epoxy coating. Applied on interior or exterior concrete floors and walls, it hardens to a tough, satin 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, and durable non-slip barrier that is able to protect the concrete slab from freeze-thaw, rain and snow.

ZeraStout™ EW can be applied on a 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 be 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

- Odorless, safe, non-toxic and has a low VOC
- No induction; just mix and apply
- Applied in a one coat application; excellent hiding capacity of imperfections on concrete floors
- Uniform non-slip finish; offers great resistance to slippage and is easy to walk on
- Adheres firmly to a properly prepared concrete slab, thus generating a long-lasting bond
- Excellent adhesion to damp concrete or fresh concrete (7 days cure)
- Excellent durability
- Impervious to water and/or chloride penetration
- High permeability; 100 times greater than solvent-based or 100% solids epoxy coatings
- Fast drying with rapid release of water
- Can be re-coated in 5 hours, thus saving time
- Hot tire pick-up resistance
- 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 cleanup process for tools with only water

HANDLING PROPERTIES @ 23°C (74°F)

Mix Ratio, by volume	3 Part A: 1 Part B
Viscosity (Mixed) Colored	15, 000 cps (thixotropic)
Solids Content for Colored (by volume)	60%
(by weight)	70%
Pot Life	1 hour
Mixed Weight (Density)	1.32 kg/litre (11.0 lb./US gal)
Optimal Application Temperatures	10-30°C (54-86°F)
Thin Film Set Time (Re-coat if Required)	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)

<u>Colours:</u> available in three standard colours: silver grey, gun metal grey and stone beige. Other colours can be made available based on minimum 50 gallon order.

SURFACE PREPARATION

New concrete must be cured for a minimum of 7 days before applying **Zera**Stout™ EW. The temperature during the application is 10°C or higher to allow for water evaporation from the coating. The substrate must be free of all dirt, waxes, moisture and 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 abraded (either grinded or sanded with a 25 grits sandpaper) to provide a clean tooth for adhesion to concrete surface.

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 it. 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 then apply immediately.

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 either a lint-free 6 mm or 9 mm nap roller, depending on the profile of the concrete. Avoid allowing the coating to puddle in a low-lying area, as this may cause the occurrence of softening, lifting and discolorations.

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 alone to apply the coating; back-roll to ensure a uniform finish.
- **Zera**Stout™ EW**,** applied in a thin coat, does not bridge post-application concrete cracks.
- Not recommended for floors subjected to heavy-duty traffic.
- Protect the coating from rain until it is dry (at least for 12 hours) @ 23°C (74°F).
- It takes a longer time to dry (cure) at lower temperatures or at high levels of humidity.
- Minimum surface temperature for curing is 5°C (41°F), providing that the water had fully exited the coating film beforehand.

COVERAGE

4.9 m²/L (200 ft²/U.S. gallon), depending on the porosity of the concrete substrate

PACKAGING

3.79L (1 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 PRECAUTIONS

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

WARRANTY

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