

WATER-BORNE EPOXY RESIN FOR CONCRETE, ENGINEERED CEMENT, GYPSUM & WOOD INSTALLATIONS

Cutting-Edge Epoxy Technology

CounterTek™ Epoxy Gen 3 is the only 3rd Generation Waterborne Epoxy on the the market. This new technology in resins and catalyst chemistry provides dramatic improvement over even the most recent epoxy resin modifications used by other manufacturer.

The Epoxy Gen 3 system is a high-performance project time-saver. As a waterborne system, the substrate need not be totally dry. The relatively short print-free and cure times make access or second/top coatings fast and efficient. The 51% solids and build rate are ideal for high-wear installations on acid-etched, shot-blast and/or profiled substrates.

EXCEPTIONAL PERFORMANCE AS A CLEAR COAT

CounterTek™ Epoxy Gen 3 is characterized by superb adhesion to a wide range of substrates, high solids onlay + DFT, outstanding abrasion-resistance; and rapid hardness/cure. With excellent UV resistance as compared to other epoxies, this coating holds its clarity for extended time and exposure conditions. The 3rd Generation Technology provides a surface that is far more resistant to staining and grease spots than conventional epoxies.

COLOR WITHOUT COMPROMISE

Adding pigmentation to standard epoxies creates spaces in the resin matrix that can interfere with adhesion and strength. In the CounterTek™ Epoxy Gen 3 system, color is delivered by use of CounterTek™ Microperse Dyes. Because of the chemistry of these dyes, there is no performance compromise.

Tensile Strength	typically 7,000 psi
Elongation	typically 90% at cure
Tabor Abrasion Test (CS-17 Disk, 1000 grams, 1000 cycles)	typically 40 mg loss
Solids Content	51%
V.O.C. Content	91 g/L catalyzed
Dry Rate	walkable: 6 hrs typical light service: 12 hrs typical standard service: 24 - 48 hrs full cure & protection: 3 days
Coverage	~250 - 400 sq. ft. / Gal / Coat [~ 4 - 7 mils WFT / Coat]
DFT	~ 3.5 mils [~8 mils if 2 coats]

Chemical & Solvent Resistance (30 Minute Spot Tests)	
Xylene	no effect
Toluene	slt. softening, recovers
MEK	no effect
Butoxy ethanol; 409	no effect
Isopropyl alcohol	no effect
1 N. NaOH	no effect
30% Ammonia	no effect
Clorox Bleach	no effect
1 N. HCL	temp. whitening, recovers
glacial acetic acid	no effect
engine oil	no effect
brake fluid	no effect

COUNTERTEK EPOXY GEN 3

INSTRUCTIONS FOR USE

PREPARATION

Before applying CounterTek Epoxy Gen 3, surface should be totally clean and absorbent, free of all contamination and residues and without laitance/scrim coat. For concrete, surface should be no smoother than a 200-300 grit grind or sand. If concrete/cement has been acid stained or etched, a scrub with a non-sudsing ammonia solution, a copious double water-rinse and ample dry time are required for neutralization. For some cement and concrete surfaces, O-S/W™ Substrate Conditioner is applied prior to Epoxy Gen 3 to promote adhesion. For engineered cement, curing should be complete before application of CounterTek coatings. Product, substrate and site temperature, when mixing, during application and during cure, must be 65^o- 85^o F, humidity <60%, with good air circulation (box fans are required) for normal cure.

COVERAGE

Gallon Unit: ~225 - 400 sq. ft.

Quart Unit: ~50 - 90 sq. ft.

Pint Unit: ~30 - 45 sq. ft.

One unit of CounterTek Epoxy Gen 3 consists of two bottles:

- Part A - Resin
- Part B - Catalyst

MIX RATIO*

20 Parts A to 7 Parts B (or 1 Part A to .35 Parts B)

*Units are premeasured to contain the correct ratio of Part A and B if mixed in entirety.

APPLICATION

1. Pour Part B into Part A, then close Part A with original cap tightly.
(if mixing less than full units, premeasure Part A and B before adding to clean/new mixing container with cap)
2. Mix well by shaking for 1-2 minutes.
3. Wait 10 Minutes (Induction Time). Pot life is now ~45 minutes (at 70 degrees F).
4. Apply with Airless or HVLP Sprayer, or short nap roller in an even continuous coat without pooling
 - at 225 - 300 sq.ft./Gallon (5-7 mils wet film thickness) for porous and acid stained substrates
 - at 325 - 400 sq.ft./Gallon (4-5 mils wet film thickness) for tighter surfaces and/or over primers

*If applying with a roller, use a V or W pattern to quickly spread and backroll the material lightly and evenly, quickly moving into the next area so overlaps are wet to wet.
5. For added durability, for very porous substrates, or applications near water features, a second coat of Epoxy Gen 3 can be applied when first coat is print free and totally clear (no haze left). Under normal applications conditions this is after 8 hours. Thicker applications, cooler temperatures, and/or high humidity can increase cure times.
6. When final Epoxy Gen 3 coat is print free and clear (no haze left), typically after 8 hours, topcoat with CounterTek 2K Pro 2 for best resistances to abrasion and heat.
7. Adhere to post-application precautions as coatings will be more vulnerable until fully cured several days after application.

CLEAN UP

Clean tools with soap and water before allowing product to catalyze. Diluted acetone can be used in spray guns. Close and properly dispose of bottles as job site chemical waste.



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