

STONELOK™ "E3"

Water-borne Epoxy Resin

for Concrete, Engineered Cement, Gypsum & Wood Installations

Cutting-Edge Epoxy Technology

STONELOK™ "E3" IS THE ONLY "3RD GENERATION WATERBORNE EPOXY" ON THE CURRENT MARKET. This new technology in resins and catalyst chemistry provides dramatic improvement over even the most recent epoxy resin modifications used by other manufacturers.

The "E3" 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 and acid-etched, shot-blast and/or profiled substrates.

EXCEPTIONAL PERFORMANCE AS A CLEAR COAT

StoneLok "E3" is characterized by **SUPERB ADHESION** to a wide range of substrates and RJSC primers; 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 StoneLok "E3" system, color is delivered by use of RJSC E3-Type™ Colloidal Dyes. Because of the chemistry of these RJSC dyes, there is no performance compromise.

Tensile Strength	typically 7,000 psi	Chemical & Solvent Resistance	
Elongation	typically 90% at cure	30 minute spot tests	
Tabor Abrader	1000g. CS17, 1000 cycles	xylylene	no effect
	typically 40 mg loss	toluene	slt. Softening, recovers
Solids Content	51%	mek	no effect
V.O.C. Content	91 g/L catalyzed	butoxy ethanol; 409	no effect
Dry Rate	walkable: 6 hrs typical	isopropyl alcohol	no effect
	light service: 12 hrs. typical	1 N. NaOH	no effect
	standard service: 24 - 48 hrs.	30% ammonia	no effect
	full cure & protection: 3 days	clorox	no effect
Coverage	~250 - 400 sq.ft./gal/coat	1 N. HCL	temp. whtning, recovers
	[~ 4 - 7 mils WFT/coat]	glacial acetic acid	no effect
DFT	~ 3.5 mils [~8 mils if 2 coats]	engine oil	no effect
		brake fluid	no effect



Distributed by:

For more information on application, other technical matters, primers and colorants

V-SEAL TECHNOLOGIES TARA Distribution Group, Ltd.

Phone: 877-73V-SEAL { 877-738-7325 } Fax: 740-389-1619 Email: sales@vseal.com

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INSTRUCTIONS FOR STONELOK™“E3” for Old, New, & Acid-Stained Concrete/Cements; and Gypsum Flooring

STARTING POINT is a TOTALLY CLEAN, ABSORBENT SURFACE free of all contamination and residues and without laitance/scrim coat. For concrete, contact RJSC for Concrete Prep data. 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. See RJSC bulletin for use of StoneLok™ “E3” over acid-stained/treated floors. For some cement and concrete floors, O-S/W™ Substrate Conditioner or 200-Series™ Epoxy Primer is applied prior to StoneLok “E3”. For gypsum-based floors, a primer may be needed. For engineered cement, minimum cure before “E3” is 12 hours but actual installation dependent.

Product, substrate and site temperature, when mixing, during application and during cure, must be 65°- 85° F., humidity <60%, with good air circulation (box fans are required) for normal cure.

ONE UNIT consists of 2 (TWO) BOTTLES

- Part “A” Resin
- Part “B” Catalyst

A gallon unit will cover ~225-400 sq.ft; a quart unit ~50-90 sq.ft; a pint unit about 30-45 sq.ft. See 4 below.

1. **POUR----** Part B [1 volume unit] --- INTO
---- Part A [1 volume unit]
For smaller volumes, mix ratio is 1 part “A” + part “B” as 35% of “A” [20 parts “A” to 7 parts “B”]
2. **Immediately MIX WELL by SHAKING FOR 1-TO-2 MINUTES.**
3. **WAIT 10 MINUTES [induction time]. POT LIFE IS NOW ABOUT 45 MINUTES.**
[Induction times and pot life are at room temperature]
4. **APPLY with AIRLESS SPRAYER with 6.19 tip and minimum 50% overlap at about 225 – 300 sq.ft./gal [~5.5 - 7 mls WFT] for porous or heavily acid-stained concrete; at 325 – 400 sq.ft./gal [~4 - 5 mls WFT] for tighter surfaces and/or over primer. You want an even coat that gets substrate totally covered but without pooling.**

IF AIRLESS SPRAYER is NOT AVAILABLE, use short nap roller (3/16” or max 1/4”) or paint pad in standard “V”/”W” pattern laydown with backroll as below:

- ◆ **LOAD ROLLER. CREATE A “V” or “W” in a 4’ x 4’ AREA.** Do NOT pour product onto surface.
 - ◆ **Working in a pull/push mode (away from you and towards you), QUICKLY SPREAD THE MATERIAL.** Work with a free hand. The idea is just to spread material evenly.
 - ◆ **LIGHTLY BACKROLL.** Do not overwork.
 - ◆ **REPEAT THE ABOVE ADJACENT to the first area, OVERLAPPING THE NEW “V”/”W” SLIGHTLY INTO THE OLD.**
 - ◆ **WORK FAST** so that overlaps are **WET to WET.**
5. **FOR ADDED DURABILITY, heavy acid staining, very porous substrates, or potential standing water, apply two coats - with 2nd coat applied when 1st coat is print-free and totally clear (no haze). This is typically after 8 hours. NOTE: If you have applied a very heavy coat, especially under cool conditions/low air circulation, time until clear will increase.**
 6. **WHEN FINAL COAT “E3” IS PRINT FREE/TOTALLY CLEAR (no haze), typically in 8 hours, topcoat (optional) with StoneLok “2K”, StoneLok “MLT Plus” or SuperTop™.**
 7. **OBSERVE POST-APPLICATION PRECAUTIONS**

Clean up is soap & water. A small amount of acetone helps in spray guns. Close and properly dispose of bottles as job site chemical waste.

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