

Application of **QuartzBase™ (Epoxy) & QuartzKote™ (Polyurethane)** **Gloss clear, Quick-Cure, Durable, Chemical-Resistant Floor Coating**

SURFACE PREPARATION

Refer to the **QuartzBase™** (100% epoxy: 6-hour cure time) and **QuartzKote™** (80% solids polyurethane: 2-hour cure time) *Data Sheets* for general product preparations prior to individual product applications.

The floor to be coated must be completely clean of all contaminants prior to application: including: peeling or oxidized paint, oil, grease, dust, powder, water, rust, etc. Usually, vacuum shot-blasting or circular grinding, with appropriate floor repair, is necessary to properly prepare concrete slab sub-floor for coating. New concrete should cure 28-days. An **ASTM F1869-98** Anhydrous Calcium Chloride Moisture Test is required to assure moisture vapor emission below 3-lbs/1,000 sq.ft. (industry standard) for warranty. **KrystalSeal™** penetrating epoxy can be used immediately before **QuartzBase™** application to reduce vapor transmission to acceptable limit. Discuss this remedial procedure with TradeWinds' **Technical Support** (see bottom of page 2).

QUALIFIED, PROFESSIONAL APPLICATION RECOMMENDED

Equipment & materials required:

- ▶ Appropriate amount of pre-blended **Estes Broadcast Medium** or **3M ColorQuartz®** aggregate for area;
- ▶ Appropriate amounts of **QuartzBase™** (epoxy) *Base Compound* and *Curing Agent*;
- ▶ Appropriate amounts of **QuartzKote™** (polyurethane) *Base Compound* and *Curing Agent*;
- ▶ Standard roller handle, 6-foot pole, extension pole;
- ▶ Several solvent-resistant (phenolic) ¼", ⅜", ½", or ¾" nap lambswool &/or polyester roller covers;
- ▶ Standard masking tape, masking paper, cleaning rags, razor knife, etc.;
- ▶ Various steel trowels: 20" x 5" & 4" x 8" rectangle flats; standard coving; 3" margin; etc.
- ▶ 3" x ½" soft-bristle brushes for coved splashboard finishing and cut-in;
- ▶ 6" x 3" x 1", 3-lb., Marshalltown Rub Brick, with handle;
- ▶ Wheelbarrow, mixing hoe and square shovel (for mixing baseboard & rampway "dry-slurry");
- ▶ Knee pads and metal-spiked (golf-type) shoes or Korcker-type spike strap-ons;
- ▶ Acetone or M.E.K. in sealed containers;
- ▶ Several clean 5-gallon, sealable plastic buckets; Rubber spatula for bucket clean-out;
- ▶ Wet Film Thickness (WFT) gauge;
- ▶ Proper OSHA protective clothing and activated-charcoal filtered breathing mask (indoors).

COVERAGE:

QuartzBase™ (as **basecoat** on porous concrete):

100 sq.ft./gallon {thin} at **15-mil WFT** (1/64-inch); **64 sq.ft./gallon** {standard} at **25-mil WFT** (1/40-inch);
50 sq.ft./gallon {medium} at **30-mil WFT** (1-32-inch); **27 sq.ft./gallon** {thick} at **60-mil WFT** (1/16-inch).

QuartzKote™ (as **topcoat** over **ColorQuartz Aggregate**):

200 sq.ft./gallon at **5-mil DFT** (6-mil WFT) {*slip-resistant* in single coat};
100 sq.ft./gallon at **10-mil DFT** (12-mil WFT) {*smooth* in two separate coats, after rub-brick sanding};

or

QuartzBase™ (as **topcoat** over **ColorQuartz Aggregate**):

250 sq.ft./gallon at **6-mil DFT** (6-mil WFT) {*slip-resistant* in single coat};
100 sq.ft./gallon at **15-mil DFT** (15-mil WFT) {*smooth* in two separate coats, after rub-brick sanding}.

APPLICATION:

- 1.) Add amber-clear **QuartzBase™ Epoxy Curing Agent** to **QuartzBase™ Epoxy Base Compound** at pre-measured Base/Cure ratio. Stir thoroughly with moderate speed drill-mounted impeller, or "box" mix transfer several times until uniform. Use a rubber spatula to occasionally clear inside of pail. Mix one, two, or four-gallons at a time, in a clean 5-gallon pail.

- 2.) In a wheelbarrow, thoroughly mix enough “dry slurry” to begin to cover covered baseboard borders: 1-gallon mixed **QuartzBase™** to 50-lb bag of *blended quartz aggregate* will cover approx 27 linear-feet of covered, 6" high baseboard. Use square shovel to distribute slurry along baseboard.
- 3.) Use flat & margin trowels to properly cover baseboard top & face with 1/8" to 1/4" coat of **QuartzBase™**. Use coving trowel to properly form baseboard-to-floor coving. Use **water**-dipped paint brush to remove occasional loose quartz particles, and smooth-finish all baseboard surfaces. Knee pads required.
- 4.) Choose desired basecoat thickness (100sq.ft./gal to 27sq.ft./gal: see **COVERAGE** page 1). Pour **QuartzBase™** onto concrete floor, distributing with deep-serrated squeegee or large flat trowel to selected coverage. Squeegee or trowel fairly large area as quickly as possible, maintaining desired coverage.
- 5.) Wearing golf or Korker-type spikes, “Backroll” squeegeed or troweled **QuartzBase™** to evenly distribute coating, and to minimize troweling pattern. This step can be started while co-worker completes Step #4.
- 6.) After approx. 10-minutes, while wearing spikes, broadcast *blended quartz aggregate* onto wet **QuartzBase™**. Broadcast until color is consistent over entire area, fully saturating **QuartzBase™**. Hand broadcast from a bucket, or use a “Hopper Gun” to shoot aggregate as evenly as possible. This step can be started while co-worker completes Step #5. **DO NOT** walk on aggregate at this time.
- 7.) Allow 6-hours (to overnight) for **QuartzBase™** to cure adequately before walking onto aggregate floor. Sweep excess aggregate into piles, and transfer recovered aggregate back into original bags for future use.
- 8.) To smooth aggregate surface, use a “Rub Brick” on coved edges, ramps borders, etc. Use “Rub Brick” or circular 80-grit sanding disk on electric floor-buffing machine. No smoothing yields a textured, non-slip surface. Smooth under counters where chairs, etc., may slide on floor.
- 9.) Sweep and vacuum all surfaces, discarding all excess sanding residue.
- 10.) Add clear **QuartzKote™ Polyurethane Curing Agent** to **QuartzKote™ Polyurethane Base Compound** at pre-measured Base/Cure ratio. Stir thoroughly with moderate speed drill-mounted impeller until uniform. Use a rubber spatula to occasionally clear inside of pail. Mix one, two, or four-gal at a time, in 5-gallon pail.
- 11.) Using roller & brush, thinly apply **QuartzKote™** to top and faces of coving & baseboard.
- 12.) Pour several gallons of **QuartzKote™** onto floor and tightly (thinly) trowel-apply over entire floor to approx. 6-mil WFT (5-mil DFT). Coverage rate: approx 200 sq.ft./gallon.
- 13.) Backroll **QuartzKote™** with 1/4", 3/8", 1/2" or 3/4" lambswool/polyester cover, until evenly distributed.
- 14.) Allow adequate cure time (minimum 2-hours) for **QuartzKote™** before opening floor to light foot traffic. Normal foot traffic in approx. 8-hours. A second coat may be applied to increase DFT and smoothness.

QuartzBase™ (epoxy) can also be used as a topcoat, presuming no direct exposure to sunlight or excessive U-V. Allow 24-hrs. cure time before normal foot traffic.

QuartzFloor™, QuartzBase™ and QuartzKote™ are registered trademarks (pending) of:

TradeWinds International

P.O. Box 12396

La Crescenta CA 91214

Toll Free: 888-463-3003

Local: 818-500-1921

Fax: 818-500-3973

e-mail: tradewinds@usa.com