

QuartzFloor™ System DATA SHEET

QuartzFloor™ System is composed of two coatings: **QuartzBase™** 100% solid, clear Novalac epoxy, with a cure time of approx. 6-hours; and **QuartzKote™** 80% solid, gloss clear, cross-linked, aliphatic polyurethane, with a cure time of approx. 2-hours. Both are two-component, high-solids, and low VOC. Both can be used as topcoat for "poured seamless" flooring, sandwiching quartz aggregate or vinyl chips. Both possess outstanding resistance to harsh commercial conditions; detergent cleaning & caustic chemicals; abrasion &, impact; mold, mildew & microbial growth. **QuartzKote™** is resistant to the effects of U-V and I-R: clear will not yellow, and underlying colors exposed to direct sunlight will not noticeably fade for approx. 10-years. **QuartzKote™** has proven flexibility and tolerance to expansion & contraction, providing a crack-resistant surface, desirable in harsh environments such as salt-air coastal, high heat desert, and frigid mountainous. **QuartzKote™** is completely resistant to hydraulic, lubricating and cutting oils, alcohols, food stains, normal acids & alkalies, salts, solvents, fuels, paints, inks, asphalt, wet concrete, algae, mildew, fungal molds, pesticides, fertilizers, creosote, etc., and spike temperatures to 450°F. Both are certified to meet **USDA** requirements for food handling areas, and are tough enough for store aisles, loading docks, locker rooms, warehousing, garages, parking ramps, machine shops, laboratories, schools, hospitals, banks, etc.

Product Selection

QuartzBase™ is a clear, 100% solid Novalac epoxy, which will not shrink. Standard cure time is approximately 6-hours. **QuartzBase™** is normally used as a basecoat to hold aggregate, but may also be used as an economical topcoat (not for direct sunlight, which may cause eventual yellowing). **QuartzBase™** is also sold as **EpoxiKote™** clear.

Quartz or vinyl chip aggregates can be obtained through national & local suppliers of these materials. TWI can provide vendor information. Both material types can be sandwich-sealed between basecoat and topcoat.

QuartzKote™ is a clear, 80% solid aliphatic polyurethane, which will not yellow. Normal cure time is approximately 2-hours. **QuartzKote™** exhibits excellent durability and high resistance to impact, cracking, chalking, yellowing, abrasion, graffiti, normal wear & tear, and weathering in general. Light foot traffic is allowable on **QuartzKote™** after approximately 2-hours. Regular use can resume in approximately 6-hours. **QuartzKote™** is quick-cure version of **KrystalKote™ CTF**.

Coverage

As basecoat, **QuartzBase™** covers approx. 100 sq.ft. at 16-mil (1/64-inches) per gallon WFT/DFT. As topcoat, **QuartzBase™** or **QuartzKote™** both cover approx. 200 sq.ft. at 6-mil (1/200-inch) DFT.

Surface Preparation

All old coatings must be completely removed from the concrete matrix: no adhesive residue, paint, oil, grease, dust, powder, water or any contaminants may be left on the surface. Shot- ro sand-blasting may be required, followed by vacuuming and water or solvent rinse. Careful acid-etching with complete neutralization & water-rinse is also possible. **QuartzBase™** must be applied to a clean surface, and the surface must be absolutely dry before application. At least 24-hours is recommended between rinse-water pick-up and application.

Mixing

Both coatings are supplied in two parts, which must be thoroughly mixed before use. These components are NOT interchangeable. Use caution while mixing: all parts are flammable, as are the mixes. Do not attempt to mix or use below 40°F or above 110°F. Both **QuartzBase™** and **QuartzKote™** are packaged in pre-proportioned kits of "Base" & "Curing Agent". At least 5-mins. of moderate speed mixing should be used; longer for large quantities. Mixing should be done on-site and with ventilation. For **QuartzKote™**, ambient air temps. between 40°F - 65°F require a cold-weather catalyst; and between 85°F - 110°F, a hot-weather retarder may be used, as per the tables on the reverse sheet. Do not mix more than can be applied in the appropriate potlife time per Curing Time / Temperature Table.

Application (abbreviated)

- 1.) **QuartzBase™** is applied at **100 sq.ft. to 27 sq.ft.** per gallon, with a notched or flat steel trowel. Backroll to level & remove trowel marks.
- 2.) *Broadcast* pre-blended aggregate (quartz or vinyl chips) into basecoat until quartz is a uniform color, or no “wet” spots are evident through chips
- 3.) After basecoat has fully cured: *sweep*, sand smooth all baseboards, counter recesses, etc., with stone “Rub Brick”, and *vacuum* away excess aggregate.
- 4.) Immediately squeegee-apply **QuartzKote™** or at **QuartzBase™** rate of approx. **200 sq.ft.** (8-mil WFT) per gal, or trowel-apply “*tight*”, leaving no excess. Backroll to level & remove trowel marks, leaving a slightly textured, slip-resistant finish.
- 5.) For smooth finish, squeegee or trowel-apply additional coat or coats of **QuartzKote™** as soon as step #4 allows “spikes” or light foot traffic.

Cleanup

Tools & equipment may be cleaned with: Acetone, Toluene; M.E.K.; Lacquer thinner; or an approved low-VOC reducer/cleaner.

Packaging

QuartzBase™ and **QuartzKote™** Base Compounds are available in 1-quart & 1-gallon kits, and 5-gallon pails, with appropriate Curing Agent. Cold-weather catalyst or hot-weather retarder must be specified at time of order.

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Physical Properties of QuartzFloor™

V.O.C. QuartzBase:	0 grams/liter (0.0 lbs/gal)
QuartzKote:	228 grams/liter (1.9 lbs/gal)
SCAQMD Rating:	Extreme Performance Coating per Rule 1107 para (12); Industrial Maintenance per Rule 1113 para (17).
Coating	
Coverage QuartzBase:	200 ft²/gal at 8-mil WFT/DFT.
QuartzKote:	200 ft²/gal at 6-mil DFT.
Solid Content (by wt):	QB: 100% & QK: 80%
Consistency:	Brushable/Sprayable
‘Pot’ Life QuartzBase:	approx. 1-hr. at 75°F.
QuartzKote:	approx. 45-min at 75°F
‘Lite Traffic’ Cure Time:	approx. 2-hr at 75°F
‘Full Cure’ Time	approx. 8-hr at 75°
Tensile strength:	6,000 P.S.I.
QuartzKote Elongation:	100%
M.E.K. 100-rub test:	Pass
Impact resistance:	Excellent: 1-lb. ball/5-ft drop: No chipping or cracking.
Chemical-Resistance:	Excellent (see chart).
Taber abrasion:	Outstanding: Taber Abrader with CS-17 wheel and 1 kg pressure. Film loss: 1-mil per 13,000 revolutions.
Salt-spray:	No film deterioration/lifting after 1,500 hours at 90°F and 20% salt solution.
Weather resistance:	Excellent.
U-V Light Resistance:	Excellent

Temperature Extremes Table

Cold Weather Catalyst (per gallon)

Below 40°F	Do not mix or apply
40°-45°F	2 tablespoons
45°-55°F	1 tablespoon
55°-65°F	1 teaspoon

Hot Weather Retarder (per gallon)

85°-95°F	½ pint
95°-105°F	1 pint
105°-110°F	2 pints
Above 110°F	Do not mix or apply

Your Distributor: