

Decorative Quartz Floor Coating System

1.01 - Work Included

1. Furnish necessary material, labor, and equipment required to prepare designated areas and install a DecoFloor™ Quartz System
2. Submit three (3) – 2" x 3" cured system samples which the contractor has made for verification purposes and finish texture approval
3. Submit two (2) copies of the manufacturer's maintenance instructions.

1.02 - Related Work

1. Coordinate work with contractors from the following sections.
 1. 03000 – Concrete
 2. 03370 – Concrete Curing
 3. 03500 – Cementitious Decks and Toppings

1.03 - Quality Assurance

1. Manufacturer's and Contractor's Qualifications. Manufacturer and installer of DecoFloor™ Quartz System should be one and the same. Installation must be performed by the manufacturer with their own skilled technicians having not less than three (3) completed projects of the same type system as specified in this section.
2. Thickness of system shall be 1/8".
3. System should be comprised of polyurethane only. No epoxies allowed.

1.04 - Warranty

1. The manufacturer/contractor shall furnish a standard guarantee of the DecoFloor™ Quartz System for a period of one year after installation. The labor and material guarantee shall include loss of bond and wear-through to the concrete substrate from normal use.
2. Not included in the warranty are damage due to structural design deficiencies including but not limited to slab cracking from lateral, vertical or rotational movement, and gouging or other damage due to fork lifts, other equipment, delamination caused by vapor transmission, Acts of God, or other elements beyond the scope of protection of this system nor causes not related to the system materials.

3. In case of a warranty claim, the owner will notify the manufacturer/contractor in writing within 30 days of the first appearance of problems covered under this warranty. The owner will provide free and unencumbered access to the area during normal working hours for warranty rework. Property protection is also the owner's responsibility. Remedy is limited to direct repair of the DecoFloor™ Quartz System.

1.05 - Job Conditions

1. The contractor shall visit the jobsite prior to the installation of the DecoFloor™ Quartz System evaluate substrate condition, including substrate moisture transmission, quantity and severity of cracking, and the extent of repairs needed. Substrate imperfections should be repaired only after mechanical preparation of the substrate. Surface preparation reveals most imperfections requiring repair. Concrete substrates shall be tested to verify that the moisture vapor transmission of the substrate does not exceed the DecoFloor™ Quartz System manufacturers' recommendations. Cost associated with repair, leveling and remediation of the substrate are the responsibility of the provider of the substrate.
2. The contractor should exercise care during surface preparation and system installation to protect surrounding substrates and surfaces, as well as in-place equipment. The contractor shall prepare the substrate to remove laitance and open the surface. This shall be achieved by light brush grit blasting or by acid etching. Surface profile achieved shall be similar to medium grit sandpaper and free from bond-inhibiting contaminants. Costs incurred that are associated with damage from negligence or inadequate protection shall be the sole responsibility of the contractor.
3. Sub floor tolerances are specified in Section _____ (in accordance with ACI 302). Each drain in the installation area must be working and raised or lowered to the actual finished elevation of the DecoFloor™ Color Broadcast System.
4. System must be protected by the General Contractor or, as a separate bid item, by the installing contractor until it is inspected and turned over to the owner. The minimum slab temperature must be conditioned to 60 degrees F before commencing installation, during installation, and for at least 72 hours after installation is complete. The substrate temperature must be at least 5 degrees F above the dew point during installation.
5. Maintain lighting at a minimum uniform level of 50 or more foot candles in areas where the DecoFloor™ Quartz System is being installed. It is the

recommendation of the manufacturer that the permanent lighting be in place and working during the installation.

6. Leaks from pipes and other sources must be corrected prior to the installation of the DecoFloor™ Quartz System.

Part 2 - Products

2.01 Materials

1. The DecoFloor™ Quartz system as manufactured and installed by Gold Medal Construction Corporation, 5615 2nd Street West, Suite 2, Lehigh Acres, FL 33971, (239) 303-7380, fax (239) 303-7364, email decofloor@earthlink.net
2. System Overview: The DecoFloor™ Quartz System as formulated consists of DecoFloor™ 100% Solids Primer, DecoFloor™ 100% Solid Urethane Color Base Coat, Colored Quartz Aggregate, and DecoFloor™ Aliphatic Urethane Clear Gloss Sealer.

2.02 Properties

1. Color as chosen by the architect from the manufacturer's color offerings
2. Typical Physical Properties of DecoFloor™ Quartz System:

Hardness (<i>ASTM D-2240</i>)	70 Shore D
Tensile Strength (<i>ASTM D-638</i>)	2,500 psi
Elongation (<i>ASTM D-638</i>)	25%
Bond Strength (<i>ASTM D-7234</i>)	> 400 psi (100% Concrete Failure)
Abrasion (<i>ASTM D4060</i>)	15 mg loss
Coefficient of Friction (Dry) (<i>ASTM F-1679</i>)	0.80
Coefficient of Friction (Wet) (<i>ASTM F-1679</i>)	0.69
Coefficient of Friction (<i>ASTM D2047</i>)	0.60
Abrasion Resistance (<i>ASTM D-4060, CS17</i>)	<0.10 mg
Fungus Resistance	0,0,0,0,0

(MIL 810G)

Part 3 - Execution

3.01 Surface Preparation

1. Preparation of concrete substrate as recommended by manufacturer

3.02 Installation

1. Apply each component of the DecoFloor™ Quartz System in compliance with manufacturer's written installation instructions and strictly adhere to mixing and installation methods, recoat windows, cure times and environmental restrictions. The DecoFloor™ Quartz System is to be installed directly over non-moving control joints and cracks which have been treated with DecoFloor™ Fill, and the DecoFloor™ Quartz System will terminate at the edge of isolation and expansion joints as designated by the Architect, Engineer or Design Professional. Integral cove base shall be installed where specified in the drawings.
2. Cracks
3. After preparation, evaluation of quantity and severity of cracks in concrete will determine the needed repairs. Original bid does not include repair and treatment of cracks. Additional treatment is considered excessive and must be bid on a per linear foot basis.
4. Control Joints
5. Original bid assumes repair and treatment of control joints not to exceed standard practice. Additional treatment is considered excessive and must be bid on a per linear foot basis.
6. Isolation/Expansion and Other Joints Subject to Movement
7. All expansion joints must be honored through the flooring system..
8. System Primer
9. DecoFloor™ 100% Solids Primer
10. Base Coat

DecoFloor™ 100% Solids Polyurethane Color Base Coat

1. Quartz System
2. DecoFloor™ Colored Quartz Aggregate

1. Seal Coat
2. DecoFloor™ Aliphatic (UV Stable) Polyurethane Sealer

3.03 Curing, Cleaning and Protection

1. Cure the DecoFloor™ Quartz System materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of the installation and prior to completion of the curing process.
2. Protect the DecoFloor™ Quartz System from damage and wear during other phases of the construction operation, using temporary coverings as recommended by the manufacturer, if required. Remove temporary covering just prior to final inspection.
3. Clean the DecoFloor™ Quartz System just prior to final inspection, using materials and procedures suitable to the system manufacturer.
4. Some cleaners will affect the color, gloss or texture of your polymer floor surfaces. To determine how your cleaner will perform, first test each cleaner, in a small area, utilizing your cleaning technique. This precaution will demonstrate the effect of your cleaner and technique. If no deleterious effects are observed, continue with the procedure. If deleterious effects do occur, modify the cleaning material and/or procedure. For recommendations regarding types of cleaners, contact the DecoFloor™ Quartz System manufacturer.