

# PRODUCT DATA



TOLEDO FLOOR RESURFACING, INC.

## TFR DECO QUARTZ

### USES:

TFR DECO QUARTZ is an industrial and commercial decorative epoxy system; combining a seamless, sanitary, decorative tweed floor. It is applicable to light manufacturing areas, offices, laboratories, restrooms, health care and educational facilities.

Tensile >400 psi Concrete ASTM-D-454-85  
 Bond Strength >1500 psi Steel  
 Shore D 83

### PRODUCT DESCRIPTION:

TFR DECO QUARTZ is a 1/4" flooring system composed of:

- PRIMER:** Two component epoxy primer yielding adhesion to concrete.
- TFR DECO QUARTZ:** Three component polymer system composed of resin, curing agent and aggregate.
- TOP COAT:** TFR K-HB hi-gloss, hi-solids coating saturated with decorative quartz aggregate.
- FINISH COAT:** One-three clear coats may be applied for slip resistant or hi-build finish.
- OPTIONS:** TFR K-HB.

### ACID/CHEMICAL RESISTANT GUIDE

The following results are based on 21 day immersions.

R = Resistant L = Limited Resistance  
 NR = Not Recommended

Ammonia 25%	L
Aromatic Hydrocarbons	L
Butanol	NR
Chromic Acid 40%	NR
Citric Acid	NR
Cyclohexane	NR
Ethylene Glycol	NR
Hydrochloric Acid 20%	L
Jet Fuel	L
Kerosene	L
Methylene chloride	NR
MIBK	NR
Nitric Acid 5%	NR
Phosphoric Acid 5%	NR
Potassium Hydroxide	L
Sulfuric Acid 20%	R
Waste Water, Sewage	NR
Xylene	NR

### PHYSICAL/CHEMICAL CHARACTERISTICS

Working Properties:	Service Time	Foot Traffic	8-12 hrs. (77°F)
		Light Vehicular	12 hrs. (77°F)
		Maximum Durability	5-7 days (77°F)
Mechanical Properties:	Compressive Strength	15519 psi	ASTM D-695
	Flexural Strength	16302 psi	ASTM D-790
	Tensile Strength	6004 psi	ASTM D-638
	Coefficient of Thermal Expansion	3.5 x 10 <sup>5</sup> in/in/°F	ASTM C-531

Toledo Floor Resurfacing Epoxy DECO QUARTZ flooring systems are available in sixteen standard colors.

# SPECIFICATIONS



TOLEDO FLOOR RESURFACING, INC.

## TFR DECO QUARTZ

### DECORATIVE FLOORS

Toledo Floor Resurfacing Decorative Flooring Systems are comprised of a three component polymer system that combines a decorative appearance with excellent wearability. The Decorative Epoxy systems are sanitary, seamless, highly cosmetic and easy to maintain. These Flooring Systems are desirable where a durable, appealing, aesthetic effect is required.

### PART 1 GENERAL

#### 1) Qualifications

- A. Contractor skilled and regularly engaging in manufacturing and installation of epoxy polymer flooring systems of similar size and nature for the past five years.

#### 2) Job Provisions

- A. Concrete (standard six-bag mix) shall have a 28-30 day cure. Quick cure additives (High Early) may be used for a 5-10 day cure. Do not use a sealer on new concrete. Concrete shall have a rough, broom finish.
- B. Utilities, air, electric, water, heat 50°-70°F (air), 50°F or greater (concrete) to be furnished by contractor or user.
- C. Dock for unloading of material and equipment and disposal dumpster for non-toxic dust to be provided by contractor or user.

#### 3) Guarantee

- A. With Toledo Floor Resurfacing's installation, workmanship and adhesion are guaranteed as specified.

### PART 2 INSTALLATION

#### 1) Surface Preparation

All areas are mechanically steel shot blasted and/or scarified to remove all dirt, grease, loose and fatigued concrete; opening the pores of concrete to accept primer, fill material if necessary and overlayment.

#### 2) Surface Priming

A penetrating epoxy primer is applied to the abraded concrete.

#### 3) Surface Irregularities

Specially formulated epoxy fill material is trowelled into all holes and low spots to bring floor back to grade level as needed.

#### 4) Expansion and Control Joints

Joints 1/4" or greater are saw cut and filled with an elastomeric, flexible epoxy filler as needed.

#### 5) Installation of Overlayment

Specially formulated compounds with color pigment and graded silica sand is applied by trowelling or screed box application to thickness of approximately 3/16" prior to power trowelling.

#### 6) Coating

A hi-build, hi-solids, pigmented epoxy coating is applied. While wet, the coating is saturated with multicolor quartz aggregate. When dry, all excess quartz is removed.

#### 7) Finish Coat

One to three coats of clear epoxy is applied. One coat yields a very rough slip resistant finish. Three coats provides a hi-build, smooth finish.

# CLEANING RECOMMENDATIONS



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## PART 3 CLEANING RECOMMENDATIONS

TFR products are formulated for long wearability and low maintenance. Periodic cleaning is recommended to maintain the aesthetics of the system.

### INITIAL - AFTER CURE

Immediately after application, it is important to keep traffic and debris off the surface until the coating is fully cured (8-12 hours @ 77° F, unless otherwise stated by the manufacturer).

### MAINTENANCE

Epoxy Coatings - For cleaning: Warm water and a mild standard industrial detergent works well as a solution. For hi-builds, a squeegee or power scrubber (rider or walk behind) is recommended. If you have a slip resistant floor, a soft bristle scrub (push broom or light weight power scrubber) is recommended.

**DO NOT** - Use solvents, lacquer thinners or alcohols as cleaning solutions. They may discolor and deteriorate the coatings physical and chemical properties.

**DO NOT** - Leave cleaning solutions or water puddled on floor, especially on fresh coating (3-7 days), as discoloration may occur.

**DO** - Follow Detergent Manufacturers Cleaning Instructions.

## SPECIAL PROCEDURES FOR STATIC CONTROL:

Use as needed if static electricity occurs.

\*Floor system must cure minimum of 24 hours prior to any of the following:

1. Use a linen or cotton mop; apply clear, clean water, at ambient temperature; to the floor.
2. Allow water to remain on floor approximately 6-10 minutes.
3. Remove water with mop, squeegee or power vacuum.

**Caution:** Only treat areas where the water can be completely removed after the 6-10 minute time interval. If water is left longer than the 6-10 minute interval, discoloration may occur.

If you have additional questions call Toledo Floor Resurfacing, Inc. at 1-800-839-6446.