

PRODUCT DATA



TOLEDO FLOOR RESURFACING, INC.

TFR K-SR

USES:

TFR K-SR is an industrial strength, slip resistant coating. It is a moderate gloss, hi-solids epoxy coating with aluminum oxide additives, resulting in a slip resistant finish. Highly oily, greasy manufacturing plants, fork lift ramps and pedestrian walkways are typical use areas.

PRODUCT DESCRIPTION:

TFR K-SR is a two component, hi-solids industrial epoxy coating composed of:

PRIMER: Two component epoxy primer yielding adhesion to concrete.

TFR K-SR: Two component epoxy coating with selected grades of aluminum oxide broadcasted into the coating, in coverages specific to users slip resistant requirements.

PHYSICAL PROPERTIES:

% Total Solids	- 98%
Service Time @ 77° F	- 8 hours
Coverage	- At 10 mils coverage is 160 sq. ft./gallon

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	R

Toledo Floor Resurfacing Epoxy K-SR Coatings are available in twenty standard colors.



STATIC COEFFICIENT OF FRICTION

Test Method: ASTM D2047 James Machine • #54 Aluminum Oxide on TFR K-HB

Sample ID	Dry	Wet (25 mls of H ₂ O)	Oily	Oily/Wet (25 mls of H ₂ O)
Lab Standard Neolite	0.95	0.91	0.55 ¹	0.44 ¹
			0.44 ²	0.43 ²
Lab Commercial Neolite	0.81	0.72	0.42 ¹	0.37 ¹
			0.44 ²	0.38 ²
Lab Leather	0.73	N/A	N/A	N/A

STATIC COEFFICIENT OF FRICTION

Test Method: ASTM D2047 James Machine • #36 Aluminum Oxide on TFR K-HB

Sample ID	Dry	Wet (25 mls of H ₂ O)	Oily	Oily/Wet (25 mls of H ₂ O)
Lab Standard Neolite	0.96	0.95	0.76 ¹	0.66 ¹
			0.64 ²	0.60 ²
Lab Commercial Neolite	0.95	0.89	0.81 ¹	0.58 ¹
			0.75 ²	0.56 ²
Lab Leather	0.96	N/A	N/A	N/A

STATIC COEFFICIENT OF FRICTION

Test Method: ASTM D2047 James Machine • #24 Aluminum Oxide on TFR K-HB

Sample ID	Dry	Wet (25 mls of H ₂ O)	Oily	Oily/Wet (25 mls of H ₂ O)
Lab Standard Neolite	0.96	0.96	0.77 ¹	0.69 ¹
			0.74 ²	0.70 ²
Lab Commercial Neolite	0.95	0.90	0.66 ¹	0.57 ¹
			0.66 ²	0.57 ²
Lab Leather	0.96	N/A	N/A	N/A

¹Low level (0.05 grams) of vegetable oil contamination

²High level (0.20 grams) of vegetable oil contamination

Note: Results below 0.50 are *not* slip resistant.

SPECIFICATIONS



TOLEDO FLOOR RESURFACING, INC.

TFR K-SR

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 stone ground to remove all dirt, grease, loose and fatigued concrete; opening the pores of concrete to accept primer.

2) Surface Priming

All expansion joints are filled with an epoxy filler, as needed. Before priming, the entire floor and surrounding area is swept; then magnetically broomed to remove all shot and debris. A squeegee coat of 98% solids epoxy shall be applied at the amount of 160-200 square feet per gallon.

3) Coating

A hi-solids, pigmented epoxy coating is broadcast with aluminum oxide to provide slip resistance. Aluminum oxide (sizes #24, #36, #54) coverage options available according to the following table:

Low Density <u>Coverage</u>	Moderate Density <u>Coverage</u>	High Density <u>Coverage</u>
30 sq. ft. approx. = 2 lb. oxide	25 sq. ft. = 2 lb. oxide	20 sq. ft. = 2 lb. oxide

Other oxide sizes available upon special request.

Using a medium nap sleeve, backroll the grit-embedded surface to provide an epoxy coating over the grit and uniform appearance.

CLEANING RECOMMENDATIONS



TOLEDO FLOOR RESURFACING, INC.

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.