

# TK-HI-TECH 2

## High Solids Epoxy Floor Coating

(to replace TK-Hi-Tech Maximum Solids Epoxy)

### PRODUCT DESCRIPTION

TK-HI-TECH 2 is a two-component, solvent-free, high-build, 100% solids epoxy/amine system designed specifically for concrete floor applications where maximum durability and chemical resistance are needed. The high-gloss finish is available in both clear and standard colored formulations.

#### Features:

- Forms a tough, high strength coating that is resistant to abrasion from heavy traffic and is unaffected by rubber burns.
- Resistant to damage caused by exposure to alkalis, solvents, acids, salt solutions and water, fats, oils and fuels.
- Formulated with resins which work as an adhesive within the slab, strengthening it around minor cracks, crevices and weak spots.
- Virtually odor-free during installation and curing, making it ideal for interior applications.
- Low maintenance, high-gloss finish is smooth, durable and easy to clean.
- Easy, user-friendly roller application.

#### USES:

Suitable for interior use on concrete flooring subjected to heavy traffic or chemical/corrosive attack, or for areas in which a smooth, glossy, attractive and durable coating is desired. Ideal for flooring in industrial facilities, warehousing, paper mills, automotive garages, canneries, packing plants, aircraft hangars, wastewater treatment facilities and ice and roller skating rinks.

### APPLICATION PROCEDURES:

#### PREPARATION:

Surfaces should be clean, dry and properly prepared/primed.

**New Concrete Preparation** - The concrete should be cured using TK-DC WB DISSIPATING CURING COMPOUND 2519\* or by water curing for a minimum of 7 days as either of these methods will leave the floor open to acid etching and application later. Concrete should be at least 28 days old and should have had enough time to fully dry before applying this product. If the environment the concrete has been placed in is wet, other mechanical means of surface drying will be necessary prior to application of TK-HI-TECH 2.

**Existing Concrete Preparation** - The preferred preparation method is by mechanical surface blasting; sandblasting, grinding or shot blasting. Acid etching may be used, but it must be done properly and safely. Glossy surfaces should be sand blasted or abraded.

**Steel Troweled Surface Preparation** - Smooth steel troweled surfaces should be acid etched, shot blasted or ground to create a suitable profile and to promote adhesion.

### TECHNICAL DATA

Composition and Materials:	A two-component, solvent-free, 100% solids epoxy/amine system.
Shelf Life:	2 years in original, unopened container Stored between 40-90°F (40-32°C), out of direct sunlight
Viscosity:	2400 cps (mixed)
Weight per Gallon:	11.0-12.0
Solids by Weight:	100%
Solids by Volume:	100%
Initial Gloss @ 60°:	80 minimum
Bleeding:	None
Conical Mandrel:	1/4"
Crosshatch Adhesion %/min:	100%
Flexibility:	Pass
Abrasion Resistance: <b>ASTM D4060</b>	80 mg (CS-17/1000 cycles, 1000 g mass)
Shore D Hardness: <b>ASTM D2240</b>	65-70
VOC Content:	< 20 g/l
A.I.M. Category:	Floor Coatings Maximum VOC 400 g/l
Applicable Standards:	USDA authorization for use in meat/poultry processing facilities

### WORKING POT LIFE

Material Temperature (°F):	Pot Life Time:
60°F	> 60 min
70°F	30-45 min
85°F	20-30 min

### RECOAT WINDOW

*depending on temperature: 12-24 hours <i>as soon as coating is tack-free.</i>
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### CURE TIMES

Ambient/Substrate Temp. (°F):	Foot Traffic	Light Traffic	Full Cure
60°F	≈ 24 hours	≈ 3 days	10 days
70°F	≈ 16 hours	≈ 2 days	7 days
85°F	≈ 8 hours	36 hours	4 days

### **MIXING:**

- 1) Stir components "A" and "B" separately before combining together.
- 2) Using a 1:1 mix ratio, thoroughly combine components "A" and "B" in a clean container and mechanically mix for 2 minutes, scraping sides and bottom of the container (note that longer mixing times will reduce working time). Avoid whipping air into this mixture.
- 3) Mix only in quantities that can be used within the pot life time.
- 4) No induction time is required and this product is ready to use immediately.

### **APPLICATION:**

Apply by airless or conventional spray, brush, high quality roller, lambs wool applicator or weight bar. Apply in a uniform manner and maintain a wet edge to prevent lap marks. To prevent outgassing, ensure that the concrete is completely dry and that the coating is being applied as the substrate is cooling. It is strongly advised to "cross hatch" the second or any additional coats by applying at a 90° angle to the previous coat. This will help avoid lap marks and prevent thick/thin spots. Re-roll any puddles or sparsely covered areas.

### **CLEAN UP:**

Clean tools and equipment with TK-99 SUPER SOLVENT\* OR TK-00 XYLENE\* before the material dries.

### **COVERAGE:**

Typical coverage rate is 200-400 square feet per gallon. One coat should cover the surface adequately, however a second coat may be required to fill any pin holes left behind by entrapped air bubbling through from the first coat. Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

### **LIMITATIONS:**

- Surface and ambient temperatures should be above 50°F for the epoxy to cure properly.
- Concrete must be completely cured and dry before application.
- Do not apply over surfaces that are frozen, structurally unsound or where water or water vapor is being transmitted through the concrete.
- Do not use on asphalt.

- Designed for indoor use as it may yellow slightly or chalk if used outdoors.
- Not recommended for vertical surfaces (See TK-HI-TECH V\* for vertical use).
- Do not use once pot life has expired.
- Do not mix freshly catalyzed material with previously catalyzed material.
- Do not thin or reduce with solvents.

### **FIRST AID:**

- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

### **AVAILABILITY:**

TK-HI-TECH 2 is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in clear and ready-made standard color options.

Packaged in 10-gallon kit and 2-gallon kit units.

### **Kit Contents:**

- 10-gallon Kit: (2) 5-gallon pails
- 2-gallon Kit: (2) 1-gallon cans

### **FOR PROFESSIONAL USE ONLY**

### **NOTES:**

- \*TK-DC WB DISSIPATING CURING COMPOUND 2519 must be purchased separately
- \*TK-99 SUPER SOLVENT must be purchased separately
- \*TK-00 XYLENE must be purchased separately
- \*TK-HI-TECH V must be purchased separately

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### **TK Products Construction Coatings**

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