



Division of Sierra Corporation
ISO 9001:2000 Certified

TK EPOXY COLOR SYSTEM

Meets Federal EPA's VOC Requirements

Technical Data

TK EPOXY COLOR SYSTEM
Floor Coatings



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1. PRODUCT NAME:
TK EPOXY COLOR SYSTEM

2. MANUFACTURER:
TK PRODUCTS
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3. PRODUCT DESCRIPTION:
A two-component epoxy color coating for use on concrete, wood or metal. It is particularly well suited for interior use on concrete floors subjected to heavy traffic, and/or harsh chemical or corrosive attack. The blended materials form a tough, high strength coating resistant to abrasion from heavy traffic, and is unaffected by rubber burns. The resin serves as an adhesive within the slab to further strengthen concrete floors, particularly around minor cracks, crevices and weak spots. On concrete, the adhesion of the coating forms an inseparable bond, which is chip and peel resistant. The high gloss finish is smooth, durable, and easy to clean, aiding in reducing maintenance costs.

Installations:

Concrete Surfaces: Floors—industrial warehousing, paper mills, automotive garages, canneries, packing plants, aircraft hangars, wastewater treatment facilities, farm buildings, and concrete block walls.

Composition and Materials:

Part A: A solution of epoxies and pigments in an aromatic solvent system.

Part B: A blend of polyamide and amine resins in an aromatic solvent system.

Limitations:

Concrete must be a minimum of 28 days old to allow all moisture within the slab to dissipate. Application can be made sooner, check with manufacturer for the proper conditions to be met. Moisture content should be checked if questionable. Do not apply in temperatures less than 60°F. Do not apply in damp, wet weather. These temperatures are vital to the drying and curing time. Floors laid over

frozen soil during the late fall, or winter months, should not be coated until the following spring after the soil has thawed completely. Drying time and cure are dependent upon the temperature—the higher the temperature, the less time required. Pot-life of the blended coating is also affected by the temperatures; the higher the temperature, the shorter the pot-life.

Use care in the application of the coating, tracking, slops and spills are very difficult to remove once the coating has dried.

4. TECHNICAL DATA:

Chemical Resistance - TK Epoxy Color Coating is resistant to: alkalis, solvents, acids, salt solutions, water, fats and oils, halogens (moist), oxidizing agents and fuels (see corrosion chart supplies).

- VOC Content: <400 g/l (mixed)
- VOC Compliant
- A.I.M. Floor Coatings
- A.I.M. Definition: An opaque coating with a high degree of abrasion resistance that is formulated and recommended for application to flooring including, but not limited to, decks, porches, and steps in a residential setting.

Physical Properties:

- Pot-life: 4-6 hours at 60°F.
- Flash point: 60°F (TCC).
- Cure time: varies with temperature
- Toxicity: none after drying.
- Not conductive to electrical conductivity.
- Will not support fungal or bacterial growth.
- Flammable.

Applicable Standards:

Recommended for use on Class 1, 2, 3 and 4 concrete floors as classified in table 1.1, ACI Standard 302-69. TK Epoxy Color Coating is authorized for use by USDA. (Letter available upon request.)

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Application procedures must be followed precisely. Exact measurement and blending are imperative. Before mixing, collect all materials, tools, and/

or equipment needed. Two coats are recommended for all uses. Apply with brush, roller or sprayer.

Surface Preparation:

Concrete Surfaces: Must be clean, dry, free of grease, wax, oils, loose paint, wax or resin base sealing compounds. While mechanical abrasion or shot blasting is the preferred method of preparation, acid etching followed by repeated thorough rinsing may also be used on smaller areas. Follow the instructions according to the manufacturer. Fresh Concrete should be cured with TK-2519 DC WB (a dissipating curing compound) or water cure. On older concrete surfaces, repair holes, spalling areas, cracks, or weakened areas with TK Complete Concrete Patch.

Note 1. Substrate must be absolutely DRY, free of all moisture. To test for complete dryness, place a rubber mat, or tape a piece of plastic onto the surface; let stand for at least 12 hours. If moisture forms on the underside, ventilate the area, and retest until no moisture collects under the mat or plastic.

Note 2. To test for dust, wipe floor with a dark colored cloth or dust mop. Vacuum if dust is noticeable on the cloth or mop.

Blending:

- Stir Part A and Part B separately before mixing together.
- Mix equal parts of A and B by volume (not weight), stir well; let stand for 30 minutes; stir again before using. A large metal 25-30 gallon container is an excellent mixing container for large projects.
- Mix only in quantities that can be used within the potlife of the blended colors.
- Use separate measuring containers for each part. Dipping the same container into Part A and then into Part B can cause a partial catalytic action which can affect the quality of the paint, or cause gelation in the can.

Coverage Rates: (SFPG)

- Smooth troweled surface: 300-400
- Rough finish surface: 200-250

Application:

Apply with a brush or roller; spread uniformly, re-roll puddles or sparsely covered areas.

Sprayer application should be

attempted by professional applicators only. Use conventional or airless sprayer equipped with neoprene gaskets and hose assembly. Thin with TK-99 (only) to spraying viscosity. Use normal paint spray techniques. A non-skid finish may be achieved by mixing one container TK-Tri Grip into one five gallon mixed unit of TK Epoxy Color System.

Back roll to evenly spread the broadcast sand, apply second coat within 24 hours.

Prevent lap marks by maintaining a wet edge, using natural break points as stopping areas, and keeping plenty of paint in the roller (particularly when lapping previous work). It is also advisable to "cross hatch" the second or additional coats (apply at 90° angle to the previous coat) to avoid lap marks and thick/thin spots.

Drying Time:

The first coat will dry to touch in 2-3 hours at 60°F. The second coat should be applied as soon as the first coat is tack free and does not mar under foot pressure. Surface will be dry to foot traffic in 6 to 8 hours, heavy traffic within 36 hours. Final cure (completely resistant to chemical attack) requires approximately one week. Auxiliary heat can be used to aid drying time.

Clean-up of Equipment:

Use TK-99 for cleanup of tools, brushes, etc. Spills can be removed with this solvent if it is done before the product cures.

Precautions:

TK Epoxy Color System contains ketones and aromatic solvents and is shipped under red label. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

Close container after each use. Do not transfer to unmarked containers or weld or cut on or near container. Avoid prolonged breathing of vapor or spray mist (can cause dizziness); avoid contact with skin and eyes (can cause irritation). Eye goggles should be worn to protect eyes and neoprene gloves should be used to protect skin. KEEP OUT OF REACH OF CHILDREN.

Interior Use:

TURN OFF ALL PILOT LIGHTS. USE WITH ADEQUATE VENTILATION. Do not allow vapors to penetrate into foodstuffs. Remove animals from quarters until all fumes have dissipated and coating is

completely dry. TK Epoxy Color System in its cured state is not toxic.

First Aid:

Inhalation: Remove person to fresh air, give artificial respiration if not breathing. GET MEDICAL HELP. *Eye and Skin Contact:* Wash with large quantities of clean water for 15 minutes. *Ingestion:* DO NOT INDUCE VOMITING, GET MEDICAL HELP. *In Case of Fire:* Use CO2 dry chemical. Do not use water spray. *Spills or leaks:* Eliminate all sources of ignition. Soak up with absorbent material; allow vapors to dissipate; incinerate under local regulations.

For safety control, Material Safety Data Sheets are available from TK/ Sierra Distributors and the TK/Sierra office. This information should be read before using the product.

6. AVAILABILITY:

TK-Epoxy Color Treatment is available in standard colors plus clear, black, white and OSHA yellow. Special colors are also available.

Packaging:

KIT CONTAINERS

10 gal. 2—5 gal. pails

2 gal. 2—1 gal. cans

1/2 gal. 2—1 qt. cans

7. CONDITIONS OF SALE/ LIMITED WARRANTY

TK Products, division of the Sierra Corporation, warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. Inasmuch as the use of TK Products' product by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD ANY TK PRODUCTS' PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF TK PRODUCTS' PRODUCTS TO PERFORM AS WARRANTED

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8. TECHNICAL SERVICES

The TK office offers assistance with specifications, performance test data and field services.

9. FILING SYSTEMS

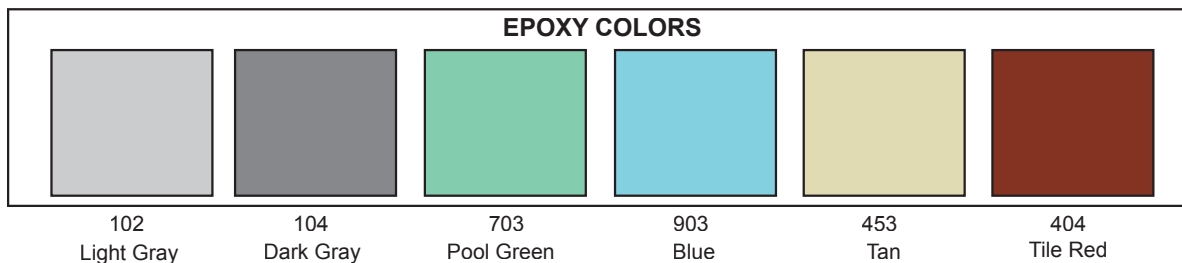
Information Handling Services
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Englewood, CO 80150
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FOR INDUSTRIAL USE ONLY

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The colors shown above are simulated. Variations in color may occur due to surface texture, substrate absorption, product thickness and light source. Actual product and color samples are available from TK Products. It is always recommended to apply a test sample to the actual surface to be coated in order to insure color approval.