



PRODUCTS

Division of Sierra Corporation
ISO 9001:2000 Certified

TK-EPOXY COLOR QUARTZ SYSTEM

Technical Data

TK-EPOXY COLOR QUARTZ SYSTEM

1. PRODUCT NAME

TK-EPOXY COLOR QUARTZ SYSTEM. Double broadcast.

2. MANUFACTURER

TK PRODUCTS
DIVISION OF SIERRA CORPORATION
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Minnetonka, MN 55343
952-938-7223
952-938-8084 (FAX)
E-mail: tksales@tkproduct.com
Website: <http://www.tkproduct.com>

3. PRODUCT DESCRIPTION

TK-EPOXY COLOR QUARTZ SYSTEM is a complete 100% solids epoxy floor system that includes:

- TK-HI TECH EPOXY (clear) and color quartz.
- TK-HI TECH EPOXY is a 1:1 mix by volume

BASIC USES:

TK-EPOXY COLOR QUARTZ can be used to beautify garage floors, basement floors, industrial areas or any area where low odor products need to be used. Combining TK-HI TECH EPOXY and color quartz will make a long lasting beautiful floor that has superior strength and is chemical resistant.

4. TECHNICAL DATA

COMPOSITION AND MATERIALS:

HI-TECH is a 100% solids, solvent free, Polyamine epoxy system.

Properties:

- Viscosity: 2400 cps
 - Weight Per Gallon: 10.77#
 - Solids by Weight: 100%
 - Solids by Volume: 100%
 - Crypto meter Hide: N.A.
 - Initial Gloss @ 60: High
 - Dry Film Thickness: As Desired
 - Flash Point: None
 - Flexibility: Pass
 - Conical Mandrel: ¼ inch
 - PencilHardnessMin: 3H-6
- Cured Fully

-Crosshatch

- Adhesion %Min: 100%
- Lead: None
- Bleeding: None
- D.O.T. Shipping Name: Not Regulated

-A.I.M. Category: Floor Coatings
-A.I.M. Definition: A floor coating formulated and recommended for application to concrete to enhance the appearance to protect the floor from chemical damage.

RESISTANCE TO:

- Abrasion: Excellent
- Acid: Good
- Alkali: Good
- Humidity: Excellent
- Petroleum Products: Excellent
- Salt Spray: Good
- Weather: Excellent

5. APPLICATION INSTRUCTIONS AND PROCEDURES

TOOLS REQUIRED:

Make certain that all tools required for the application process are present prior to application. Two or more people are recommended to successfully complete this process.

- Mixing buckets (up to 3 may be needed)
- Low speed (450 RPM) drill and mix paddle
- Porcupine or spike roller
- Roller frames- Roller covers + long handles (two needed for each coat; have extras available)
- Paint brushes
- Squeegee + long handle
- Metal spike soled shoes
- Rags
- Tools to open cans; spatula or stick to scrape product from containers
- Masking tape and paper
- Clean up solvent (TK-00 Solvent)

Good coating practices need to be observed at all times to assure maximum application success.

APPLICATION:

Floor must be prepared in a manner that is consistent with other epoxy applications (shot blast, sand blast or acid etch with proper rinses). After the floor is properly prepared and is clean, dry and free of any debris, then application can begin. Any and all holes need to be filled with TK-411 or a compatible patching material. After the patches have hardened, grind smooth to the proper level. All cracks in the floor need to also be filled with TK-9000 or TK-9030 crack filler and allowed to harden. Make sure you have all the tools required for mixing and applying the epoxy before these processes are underway.

Mix the clear TK-HI TECH EPOXY with a low speed mixer for two minutes. Move mixer paddle around in the pail to ensure proper mixing to all of the product. After the product is mixed, pour onto the floor, spreading with a squeegee and back rolling with a high quality paint roller.

Apply at a rate of 200 ft² per gallon (approximately 7-8 mils). While the TK-HI TECH EPOXY is still uncured, broadcast the color quartz onto the floor until all that is seen is dry color quartz. This is referred to as "broadcasting to excess". Let dry overnight and in the morning, remove all loose color quartz.

Be sure that your shoes are clean and free of any dirt or contaminants. Apply the second coat of TK-HI TECH EPOXY at the same rate. Rates may vary depending on applicator experience or mil requirement. While TK-HI TECH EPOXY is uncured, broadcast the second broadcast of color quartz, following the process that was done for the first broadcast. Let cure overnight. In the morning, remove all leftover loose color quartz. Apply the topcoat of clear TK-HI TECH EPOXY over the quartz.



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DRY TIME(S):

At 70° F, the average dry times are:
 -Tack free in 1-2 hours
 -Recoat within 24 hours
 -Full cure in 1-3 days
 -Pot Life @ 70°F- 30 minutes

LIMITATIONS:

Apply in temperatures above 50° F.

TK-EPOXY COLOR QUARTZ SYSTEM can be used over previously coated floors by sanding the original coating prior to application. A small test sample is always recommended beforehand, to insure compatibility.

- Do not apply over surfaces that are frozen, structurally unsound, or where water vapor is being transmitted through the concrete.
- Calcium Chloride moisture tests need to be run to determine pounds of transmission; 3 pounds or less is coatable.
- Do not use on asphalt.
- TK-HI TECH EPOXY is designed for indoor use.
- May yellow and/or caulk when used outdoors.
- Do not use once pot life has expired.
- Do not mix freshly catalyzed material with previously catalyzed material.

COVERAGE:

One kit of TK-EPOXY COLOR QUARTZ SYSTEM (10 gallons clear TK-HI TECH MAXIMUM SOLIDS EPOXY and 8 bags blended quartz) will cover 400 ft², and will yield approximately 75 mils thick.

CLEAN UP:

Clean equipment and spills before the material dries with TK-99 SUPER SOLVENT or TK-00 SOLVENT.

PRECAUTIONS:

Avoid contact with the eyes, skin and clothing. Avoid inhaling vapors. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN. Do not allow vapors to penetrate into foodstuffs. Remove animals from quarters until all fumes have dissipated. TK-HI TECH EPOXY in its cured state is not toxic. Do not reuse empty container; dispose of empty containers in accordance with all applicable regulations.

MAINTENANCE:

Minimal maintenance is required other than normal sweeping, dusting or mopping.

6. AVAILABILITY

TK-EPOXY COLOR QUARTZ SYSTEM is available in 400 ft² kits and comes in a variety of colors.

Colors Available:

Contact your TK distributor for color selection. **Allow two weeks for all orders to be fulfilled.**

7. CONDITIONS OF SALE/ LIMITED WARRANTY

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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
 PO Box 1213
 Englewood, CO 80150
 Information Marketing Services
 13271 Northend
 Oak Park, MI 48237

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