

HI-TECH MAXIMUM SOLIDS EPOXY

Meets Federal EPA's VOC Requirements

Technical Data

1. PRODUCT NAME

HI-TECH MAXIMUM SOLIDS EPOXY

2. MANUFACTURER

TK PRODUCTS, DIVISION
OF SIERRA CORPORATION
11400 West 47th Street
Minnetonka, MN 55343
952-938-7223
952-938-8084 (FAX)
E-mail: tksales@tkproduct.com
Website: <http://www.tkproduct.com>

3. PRODUCT DESCRIPTION

HI-TECH is a high build, 100% solids, solvent free, polyamine epoxy system. This product is designed especially for concrete floor application where maximum durability and chemical resistance are factors. This high gloss product is available in clear and color formulations.

Uses:

Existing concrete floors subjected to heavy traffic, and/or harsh chemical or corrosive attack. The resin serves as an adhesive within the slab to further strengthen concrete floors, particularly around minor cracks, crevices and weak spots. Concrete floors requiring a smooth, nonporous surface. Work areas needing improved aesthetics. The high gloss finish is smooth, durable and easy to clean, aiding in reducing maintenance cost.

Recommended for: Industrial warehousing, paper mills, automotive garages, canneries, packing plants aircraft hangars, wastewater treatment plants, ice and roller skating rinks, prison floors, parking garages.

Benefits: Virtually odor free during installation and curing. Equipment can be cleaned with common solvents. The final appearance of the coated concrete is a smooth high gloss finish.

4. TECHNICAL DATA

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:	1/4 inch
-Pencil Hardness Min:	3H-6H cured fully

-Crosshatch Adhesion %/min.:	100%
-Lead:	None
-Bleeding:	None
-A.I.M. Category: 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.	
-VOC Content Limit: 400 grams per liter	
-Authorized for use by the USDA	

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Before using this product, read the Material Safety Data Sheet for complete safety information. Material Safety Data Sheets are available from TK Distributors, the TK Office or the TK Website

HI-TECH Maximum Solids Epoxy coating is designed for installation over clean, dry textured concrete.

New Concrete: The concrete should be cured with TK-2519 DC WB Dissipating Curing Compound or water cured for a minimum of 7 days. These systems will leave the floor open for acid etching and application later.

The concrete should be 28 days old and have a chance to dry out. If the concrete is poured in a wet environment other mechanical means will be necessary to dry out the concrete.

Old Concrete: The concrete surface must be clean and dry. The preferred preparation method is by mechanical surface blasting; sandblasting or shot blasting. Acid etching may be used, but it must be done properly and safely.

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 assure that the concrete is completely dry and that the coating is being applied as the substrate is cooling. If a second coat is applied do so at a 90° angle from the first coat. Recoat window is 24 – 48 hours.

Coverage:

One coat will cover the concrete adequately. A second coat may be necessary to fill the pin holes left behind from the entrapped air bubbling through on the first coat. Coverage of 265 square feet per two gallon unit will leave a coating 12 mils. thick. This will vary depending on surface porosity, smoothness and application. A test patch should be applied to determine proper results and coverage rates.

Mixing Instructions:

Thoroughly mix equal parts of A and B in a clean container for 5 minutes. Longer mixing time will reduce working time, avoid whipping air into mixture. Mix only enough material that can be used according to the pot life schedule. No induction time is required. This product is ready to use immediately. Pot life of mixed material is approximately 30 – 45 minutes at 75°F.

Drying Time:

At normal temperature (72°F.) approximately 4 hours. Allow 24 hours for light foot traffic, 36 hours for normal foot traffic, 48 hours for wheeled traffic and 72 hours for exposure to chemicals.

Limitations:

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.
- HI-TECH is designed for indoor use. - It may yellow slightly and/or chalk when used outdoors.
- HI-TECH is not recommended for vertical surfaces.
- Do not use once potlife has expired.
- Do not mix freshly catalyzed material with previous catalyzed material.

Clean Up:

Clean equipment and tools before material dries with TK-99 Super Solvent or TK-00.

Precautions:

Vapor harmful. May affect the brain or central nervous system causing dizziness, headache or nausea. Causes eye irritation. Causes skin irritation. Causes nose and throat irritation. May cause allergic skin reaction. Harmful if swallowed.

Use only with adequate ventilation. To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection. (NIOSH/MSHA approved). Any person using a respirator must be properly trained in respirator use. Close container after each use. Avoid contact with eyes and skin. Dispose of empty containers in accordance to all applicable regulations.

First Aid:

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Give conscious victim 1 to 2 glasses of water and get medical attention immediately.

Wet material will not burn. Dried films of this material can burn and can be extinguished by foam, CO₂, or water spray.

6. AVAILABILITY

HI-TECH is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in: 10 gallon units and 1/2 gallon units.

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 AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED. TK Products does not authorize any person to assume for it any other liability in connection with the sale or use of its products unless specifically authorized by TK Products in writing.

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

TK DISCLAIMER:

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also **CONDITIONS OF SALE/ LIMITED WARRANTY** (Section 7) above.

FOR INDUSTRIAL USE ONLY