



TK-COMPLETE CONCRETE PATCH

Meets Federal EPA's VOC Requirements

PRODUCTS

Division of Sierra Corporation
ISO 9001:2008 Certified

Technical Data

1. PRODUCT NAME

TK-COMPLETE CONCRETE PATCH

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

A two-component acrylic/cement patching compound. The convenient bucket holds all the essentials necessary to produce a fast-setting, strong, durable concrete patch. Use the bucket to mix the specially blended cement and masons sand with the TK-225 Liquid Bonding Agent. This combination of materials forms a mortar, which becomes stronger, more adhesive and more abrasion resistant than simple water mixed mortars. The mortar does not shrink after set, but expands to entirely fill the repair area. Water, grease, oil, salt or dirt cannot seep in and around the patch creating more damage with the surrounding concrete.

This mortar is easy to handle, sets in 30 minutes and does not require a curing compound. Area can be sealed after patch is completely cured out.

4. TECHNICAL DATA

Composition and Materials:

Comparison of mortar strengths* of water mixed vs. TK Liquid Bonding Agent mixed mortars.

Strength	Water	TK Patch
Tensile	250	615
Compressive	2390	5715
Flexural	610	1585
Impact	6	16
Abrasion Resistance+	23.8%	1.15%

* lbs. Per sq. in. (PSI)

+ percent weight loss, lower values indicate better adhesion resistance.

This product is compliant because it is not currently being regulated by the EPA.

COVERAGE

10#(lb.) Pail*: 0.09 cu. ft.

60#(lb.) Pail**: 0.49 cu. ft.

50#(lb.) Bag***: 0.47 cu. ft.

*When purchasing 10#(lb.) pails of TK-Complete Concrete Patch, the necessary TK-225 Liquid Bonding Agent component is included.

**When purchasing 60#(lb.) pails of TK-Complete Concrete Patch, the necessary TK-225 Liquid Bonding Agent component is included.

***When purchasing 50#(lb.) bags of TK-Complete Concrete Patch, 1 gallon of TK-225 Liquid Bonding Agent is NOT included and must be purchased separately.

Coverage rates are provided as a guideline only. Surface texture, porosity, weather conditions, etc. will determine coverage rates. A test panel mock up should be applied prior to project start up to determine coverage rates, appearance and proper results.

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Preparation:

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.

Use in temperatures above 32 degrees F. Area to be patched must be frost free and warmed. Keep material and tools at room temperature when patching in cold weather.

Properly chip out all loose or crumbled concrete. Apply only to sound concrete free of grease, oil, dust and dirt.

Remove grease or oil stains with TK-101 Chemical Cleaner or other suitable cleaner.

Mixing:

Mix in a clean container. Put TK-Concrete Patch into container first; add TK-225. Slowly stir, mixing to a slow slump mortar consistency. Do not over mix. Pot life (working time) is approximately 30 minutes. The Liquid Bonding Agent provides sufficient moisture for the contents of each kit; however, in some instances (such as spills, or very hot, windy weather), if more liquid is necessary, a SMALL amount of water or TK-225 can be added to make a more workable consistency for application.

Application:

Moisten the patch area with TK-225 Liquid Bonding Agent to prevent patch moisture from being drawn into the dry, surrounding area. Do not allow TK-225 to dry. Increased adhesion may be achieved by brushing a "neat" bond coat into the patch area, prior to placing TK Complete Concrete Patch into repair area.

Place mortar into the patch area with a trowel; clean the trowel frequently. Level patch as desired. Broom finish before set if desired. On large areas, use the straight edge of a board or metal to level patch before troweling. DO NOT OVER TROWEL.

Areas repaired with this product can be sealed with TK Water Base Concrete Sealers. After mixing the liquid with the powder, there is approximately 30 minutes to place, smooth and trowel the patch, before its initial set (mortar forms a top crust and becomes unworkable). During cold, moist weather it may take longer to form this set. Approximately 30 minutes after the initial set, the mortar will become hard to the touch and will be dry approximately one hour later. Thick or deep patches require a longer dry time.

Limitations:

Normal working time is about 30 minutes. During cold, moist weather

TK-COMPLETE CONCRETE PATCH
Concrete Repair Materials

TK PRODUCTS
3

TK
3
PRODUCTS

TK-COMPLETE CONCRETE PATCH
Concrete Repair Materials

it may take longer to form this set. Do not over trowel. Do not use over frost or if substrate and air temperature is below 32°F (0°C).

Clean Up:

Clean equipment and spills before material dries with soap and water.

Precautions:

Warning! Harmful if inhaled. Powder dust injurious to eyes. May cause irritation to eyes, skin, nose, throat and lungs. Powder dust may form explosive mixture with air. Cancer hazard. Contains crystalline silica which may cause cancer. Risk of cancer depends on duration and level of exposure to dust or spray mist. Contains Portland Cement.

Use only with adequate ventilation. Do not breathe dust or spray mist. Avoid creating dust when mixing. Ensure fresh air entry during and after application. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust or mist levels are above applicable limits, increase fresh air or wear an appropriate, properly fitted respirator (NIOSH/MSHA TC23C or equivalent with approved dust pre-filter) during and after application. Follow respirator manufacturer's directions for use. Any person using a respirator must be properly trained in respirator use. Close container after each use. When mixing, avoid contact with eyes, skin and clothing. Wear OSHA approved eye protection and impervious gloves when handling. This product may develop sufficient heat to cause burns if allowed to set in contact with skin. Wash thoroughly after handling. Use only for purpose described.

First Aid:

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. In case of eye contact, flush immediately with plenty of water for at least 14 minutes and 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.

Finely divided powders are potentially explosive when suspended in air. Keep from heat, sparks, flames or any type of ignition sources including static electricity, welding or flame cutting operations.

6. AVAILABILITY

TK COMPLETE CONCRETE PATCH is available in 10#(lb.) pails, 60#(lb.) pails and 50#(lb.) bags*.

*50# bags require 1-gallon of TK-225 Bonding Agent, purchased separately.

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

03/12