



PRODUCTS

Division of Sierra Corporation

TK-VERTICAL PATCH

Meets Federal EPA's VOC Requirements

Technical Data

1. PRODUCT NAME:
TK-VERTICAL PATCH

2. MANUFACTURER
TK PRODUCTS, DIVISION
OF SIERRA CORPORATION
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3. PRODUCT DESCRIPTION
TK-VERTICAL PATCH is a fast setting, non-slumping patching mortar for filling vertical and overhead holes, honeycomb, deteriorated concrete and on all cementitious surfaces. It is designed to eliminate the need for costly form work. Will not shrink and develops high structural strength. Contains no metallic, emulsions or accelerators.

Uses:
For repairing deteriorated or spalled concrete where reinforcing bars are exposed and corroded, patching holes and honeycomb. Can also be used for filling precast concrete, patching concrete pipe exposed to water, repairing stucco, etc.

Advantages:
-Quick setting
-High structural strength
-Non-shrinking
-Non-slumping
-Labor savings
-Just add water, recommended to use TK-225 in the slurry coat when the substrate is questionable

4. TECHNICAL DATA
Set Expansion: .09%
Set Time: Initial 15 minutes
Compressive Strength:
1 day: 900 psi.
7 days: 3800 psi.
28 days: 5900 psi.
-VOC Compliant - this product is compliant because it is not currently being regulated by the EPA.

5. APPLICATION PROCEDURES AND INSTRUCTIONS
The area to be patched must be structurally sound. Remove all loose or unsound material by chipping, wire brushing or sandblasting.

Mixing:
Mix with clean potable water to achieve a mortar-like consistency, approx. 1 1/4 gallons to a 50 pound bag. Mix liquid to powder and mix just enough to obtain a wetted, lump-free mortar. Work quickly - TK-VERTICAL PATCH has approximately 15 minutes open time. For increased strength and delayed setting time in warm weather apply as follows:

- Keep material cool.
- Mix with cold water.
- Keep surface cool and apply early in the day. Avoid working in direct sunlight.
- Prepare small batches only.

Application:
Have concrete surface slightly damp to reduce suction. Take a portion of the mixed TK-VERTICAL PATCH and add TK-225 (for a superior bond) or water to make a tight slurry mix for brushing onto the rebar and the surface to be patched, then fill patch area with

TK-VERTICAL PATCH with trowel. Apply in successive 1/2" maximum layers. Scratch first layer - dash with water and apply second layer in 20 minutes. Keep patch area damp for 30 minutes to aid curing. Deep patches mix 15 pounds of 1/4 to 3/8 inch stone to a 50 pound bag. Curbs and floors- do not feather edge, work with a sharp edge right angle to the concrete surface.

- Limitations:**
- Do not apply at temperatures below 400F or if temperature is expected to fall below 40\$ within 24 hours.
 - Do not over mix
 - Do not retemper mix
 - Do not add any other admixtures
 - Do not apply below freezing, or to frozen substrate
 - Do not mix large quantities at a time
 - Do not apply on non-slurried surfaces
 - Do not fill over 1/2" layer per application

Coverage:
One pound fills approximately 16 cu. in. or 108 lbs. for 1 cu. ft.

Clean Up:
Clean all tools with water before mixture hardens.

Precautions:
Cement powder or freshly mixed concrete, grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

TK-VERTICAL PATCH
Patching Mortar

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6. AVAILABILITY

TK-VERTICAL PATCH is packaged in 10 lb. (1 gallon) containers and 50 lb. bags.

7. 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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