



# TK-EPO™ EXCEL PATCH

## Patching and Repair Epoxy/Urethane Hybrid

Item No. TK-EPO EXCEL

### PRODUCT DESCRIPTION

TK-EPO™ EXCEL PATCH is a rapid setting, 100% solids, high strength epoxy/urethane hybrid used to repair and patch concrete in a variety of applications.

#### Features:

- Complete patching and repair system (including aggregate) for spalled and deteriorating surfaces
- Working temperature of -20°F to 85°F
- Rapid setting - open to traffic in 12-15 minutes
- Convenient 1:1 mix ratio (by volume)
- Pre-measured kit for ease of use on the jobsite

#### USES:

TK-EPO™ EXCEL PATCH is used for small patching and repairs on concrete bridge decks, parking ramps and decks, traffic areas, freezer floors, airport runways, taxiways and aprons.

### APPLICATION PROCEDURES

#### PREPARATION:

The surface must be clean, **dry** and in sound condition. Clean the area of all debris or contaminants including oils, grease, dust, dirt and unsound concrete. Vacuum or blow dust/debris off the surface using compressed air.

Expose clean, rough concrete for proper adhesion and best end results. Sandblasting may be necessary to expose clean concrete.

Cut or chip a vertical edge (minimum 1/2" deep) around the perimeter of the patching area.

#### MIXING:

Assemble all components and tools required for application, and ensure that the patching area is properly prepared before mixing. Mixing tools, containers and the patching area must be completely dry prior to use. Mix only the quantity of material which can be used within the pot life of the material.

**Mixing Full Kits** - Shake component "B" individually for 30 seconds, then combine components "A" and "B" and mix for 30 seconds at 200-300 rpm using a jiffy mixer with a 1/2" drill. Begin incorporating component "C" (aggregate) and mix for an additional 30 seconds or until aggregate is fully wetted out. Place product IMMEDIATELY.

**Mixing Partial Kits** - Shake component "B" individually for 30 seconds, then combine equal parts (1:1 ratio) of components "A" and "B" and mix vigorously for 30 seconds. Add 3-parts (by volume) of component "C" (aggregate) to 1-part of the mixed "A" and "B" component, and mix for an additional 30 seconds or until aggregate is fully wetted out. Place product IMMEDIATELY.

#### APPLICATION:

**This is a rapid setting product, and as such the applicator should work quickly to complete application while the product is still pliant.**

**Finishing** - TK-EPO™ EXCEL PATCH should be tamped into the entire patch area with the blunt end of 2"x4" or similar object to properly wet the substrate. The surface should then be troweled and finished immediately. A small amount of aggregate may be withheld from the mixture for sprinkling overtop the finished surface immediately upon troweling to achieve proper surface color and texture. The finished patch should be level and must not protrude above the surface of the surrounding area. TK-EPO™ EXCEL PATCH may be ground to achieve uniform grade.

**Grinding to Finish Grade** - IMPORTANT! Allow the patch to set for approximately 20 minutes or until hardened before grinding. For best results, use a flexible grinding wheel to grind smooth and level with the finished grade. Shaving, scraping or cutting may also be performed with a sharp razor blade. Cut as soon as the product is set but before it has fully cured.

#### CLEAN UP:

Empty containers must be drip-free. Cured material may be stripped and peeled from plastic tools and containers and may be disposed of without restriction. Excess liquid "A" and "B" materials should be mixed together and allowed to cure before being disposed of in the normal manner. It is recommended that metal tools be cleaned within one hour of use by cutting and peeling cured material from tools.

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### TECHNICAL DATA

Pot life (100 grams at 73°F):	3 minutes
Viscosity (neat):	250 cps

### TESTING DATA

TEST	RESULTS
ASTM D 2240 Shore Hardness	60-70
ASTM D 412 Tensile Strength Elongation	1,500 psi 30%
ASTM C 579 Compressive Strength (with aggregate):	3,500 psi
ASTM C 882 Bond Strength	2,000 psi
ACI 503R Adhesion	400 psi

**LIMITATIONS:**

- TK-EPO™ EXCEL PATCH IS MOISTURE SENSITIVE AND SHOULD NOT BE APPLIED TO WET OR DAMP SUBSTRATES.
- Mix only quantities that can be used within the pot life of the material.
- Do not store in temperatures above 85°F (29°C) or in direct sunlight.

**PRECAUTIONS:***First Aid*

- EYE CONTACT: Flush immediately with water for at least 15 minutes and contact a physician immediately.
- RESPIRATORY CONTACT: Relocate person to fresh air.
- SKIN CONTACT; Remove any contaminated clothing. Remove epoxy immediately with a dry cloth or paper towel. Solvents should not be used as they carry irritant into the skin. Wash area of contact thoroughly with soap and water.
- Wash clothing before re-use
- CURED EPOXY RESINS ARE INNOCUOUS.

**FIRST AID:**

- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

**AVAILABILITY:**

TK-EPO™ EXCEL PATCH is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in pre-measured 0.5 cubic foot (0.014m<sup>3</sup>) kits.

Storage Conditions: Shelf life is 12 months in original unopened containers. Store below 85°F (29°C). Condition material to 65°F-85°F (18°C-29°C) before using.

FOR PROFESSIONAL USE ONLY

04/15 Last Rev.12/14

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