



# TK-EPOXY PATCH 211

## Patching Compound

Item No. TK-211

### PRODUCT DESCRIPTION

TK-EPOXY PATCH 211 is a versatile two-component, solvent-free epoxy resin system for patching, repairing and bonding concrete and other substrates. Insensitive to moisture, TK-EPOXY PATCH 211 may be used for a variety of purposes in either dry or damp environments.

#### Features:

- May be mixed with sand or coarse aggregate to produce an economical patching compound.
- Excellent chemical resistance - particularly to deicing salts, petroleum products, and certain acids.
- Provides a skid-proof surface when mixed with sand or aggregate.
- USDA approved for use in meat/poultry processing facilities.

### USES:

Suitable for exterior or interior use to patch and repair damaged concrete, filling cracks, and bonding fresh concrete to existing substrates.

*Additional uses include:*

- Plastic tooling on drum and tank linings
- Protective coating on electrical potting
- Resurfacing coating for floors and walls
- Grouting dowels and holes in swimming pools

### APPLICATION PROCEDURES

#### PREPARATION:

The user should be familiar with the application instructions found on the container's label prior to using this product. The surface should be clean, sound and dust-free. Light sand blasting is the recommended means of surface preparation to remove dust and dirt. Remove unsound concrete with a small pneumatic or electric hammer. TK-EPOXY PATCH 211 may be used at a range of temperatures, however the user should be aware that temperature plays a role in the pot life and cure times of this product. Higher temperatures will result in shorter pot life and cure times, while lower temperatures will result in longer pot life and cure times.

#### MIXING:

*Mixing ratio for the two components is 1:1 by volume (not weight).*

Components "A" and "B" are supplied in separate containers and should be combined by hand or paddle powered with a low speed electric drill.

*Adding of sand or aggregate* - Add 5-parts sand or aggregate to 1-part of mixed epoxy patch. Sand/aggregate should be washed and suitable for Portland cement and should meet ASTM C-144 regulations for grading. For feather edged repairs, used a #8 sieve to remove particles. Compact the patching compound by tamping or rolling to minimize air voids. The density of the compacted compound should be at least 130 pounds per square foot.

#### APPLICATION:

This product should be used **immediately** upon mixing as this will increase its available working time. Apply a tack coat of TK-EPOXY PATCH 211 to the patching area in order to enhance adhesion of the compound and to prevent binder "starvation" at the interface. This tack coat should be applied at approximately 100 square feet gallon, or as sparingly as possible while maintaining a completely wet surface.

Apply TK-EPOXY PATCH 211 while the tack coat is still "tacky". Air and substrate temperatures should be 50°F or higher at the time of application. The compound itself may be warmed by indirect heat (not to exceed a temperature higher than 100°F) to reduce viscosity or to accelerate cure. Limit the depth of application to 1" as applications beyond this depth must cure for two hours before a second layer may be applied. For best adhesion, prohibit heavy traffic in the area for 72 hours following application.

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### TECHNICAL DATA

	Component "A"	Component "B"
Composition:	Epoxy Resin (base)	Curing Agent (catalyst)
Density (lbs/gal):	9.40 lb.	8.01 lb.
Specific Gravity:	1.13	0.96
% Non-Volatile:	100%	100%
Material VOC:	0 g/l	0 g/l
Pot life (@ 70°F):	15-20 min.	
Tack Free:	4 hours	
A.I.M. Category:	Floor Coatings Maximum VOC 400 g/l	
Applicable Standards:	- ASTM C-881 Type I and II - ASTM D-1652-59T: Epoxy content - ASTM D-1484-59T: Cure rate - ASTM D-638: Tensile strength, ultimate elongation, modules of elasticity, toughness and heat aging - ASTM D-570: Water absorption - ASTM D-676: Hardness, Shore D - AASHTO Epoxy resin guide specification: bond strength - US Navy M11-C 16423 A: Impact strength - Corps of Engineers CRD-C-595-87 - USDA Authorization for use in meat and poultry processing plants	

**COVERAGE:**

Surface	Coverage
Tack coat	100 sq.ft./gal
Patching compound (1-gallon mixed with 5-parts sand or aggregate)	0.66 cubic feet

Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

**CLEAN UP:**

Clean equipment, tools and spills with an aromatic solvent such as TK-00 XYLENE\*.

**LIMITATIONS:**

- Shelf life is approximately 12 months from the date of manufacture when stored in unopened containers.
- Apply in temperatures above 50°F.

**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-EPOXY PATCH 211 is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in 10-gallon, 2-gallon and 1/2-gallon kits.

FOR PROFESSIONAL USE ONLY

**NOTES:**

\*TK-00 XYLENE must be purchased separately

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