



TK-PASTE EPOXY PATCH 411

Patching Compound

Item No. TK-411

PRODUCT DESCRIPTION

TK-PASTE EPOXY PATCH 411 is a versatile, two-component, 100% solids solvent-free epoxy resin paste system for vertical or overhead patching and bonding on new or existing concrete. TK-PASTE EPOXY PATCH 411 produces an economical patching compound that is trowelable, sag resistant and capable of producing up to 1" lifts.

Features:

- May be mixed with sand or coarse aggregate to produce an economical patching compound.
- Excellent chemical resistance - particularly to deicing salts, petroleum products, certain acids, fertilizers, pesticides and many other strong chemicals.
- 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 patching and repairing vertical or overhead 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
- Secondary confinement area as a cove where a wall and floor connect

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-PASTE EPOXY PATCH 411 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 2-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 C144 regulations for grading. For feather edged repairs, used a #8 sieve to remove particles.

APPLICATION:

This product should be used **immediately** upon mixing as this will increase its available working time. Apply a tack coat of TK-PASTE

TECHNICAL DATA

	Component "A"	Component "B"
Composition:	Filled Epoxy Resin (base)	Filled Amine Curing Agent (catalyst)
Density (lbs/gal):	11.16 lbs.	10.72 lbs.
Specific Gravity:	1.34	1.28
% Non-Volatile:	100%	100%
Material VOC:	0 g/l	0 g/l
Pot Life (@ 70°F): (@ 35°F):	35 minutes 60 minutes	
Tack Free:	4 hours	
A.I.M. Category:	Floor Coatings Maximum VOC 400 g/l	
Applicable Standards:	-ASTM C881 Type I, II and III, Grade III, Class A,B and C -ASTM D1652-59T Epoxy Content -ASTM D1484-59T Cure Rate -ASTM D638 Tensile Strength (ultimate elongation, modules of elasticity, toughness and heat aging) -ASTM D570 Water Absorption -ASTM D676 Hardness, Shore D -AASHTO Epoxy Resin Guide Specifications; Bond Strength -US Navy M1 I-C 16423 A Impact Strength -Corps of Engineers CRD-C-595-87 -USDA authorization for use in meat and poultry processing plants.	

TESTING DATA

Test	Results
ASTM D695-08: <i>Compressive Properties of Rigid Plastics</i>	
Compressive Straight (psi):	11,690
Compressive Modules (psi):	334,099
Compressive Strength @ Yield (psi):	11,205

EPOXY PATCH 411 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 as sparingly as possible while maintaining a completely wet surface.

Apply TK-PASTE EPOXY PATCH 411 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.

COVERAGE:

Surface	Coverage
Patching compound (1-gallon mixed with 2-parts sand or aggregate)	.134 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:

- Care must be taken to avoid adding added too much fill sand as this will make proper mixing impossible and could cause a patch failure.
- 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-PASTE EPOXY PATCH 411 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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