RUST-OLEUM®

5494 SYSTEM TURBOKRETE® CONCRETE PATCHING COMPOUND

DESCRIPTION AND USES

TurboKrete® Concrete Patching Compound is a resin rich epoxy/aggregate patching compound designed for quick patch repair of concrete floors in areas exposed to intermittent chemical exposure and physical abuse.

TurboKrete® Concrete Patching Compound is designed for patching repairs to concrete floors when down time is critical. It is a stand alone material which does not require a sealer for exposure to moderate chemical spills. It can be applied in a single step application with hand trowel finishing. The 100% solids epoxy is odorless making it ideal for food and beverage plants or other facilities where solvent odors can not be tolerated.

PRODUCT

5494323	Large Kit (0.30 cu ft)
253479	Small Kit (0.15 cu ft)

APPEARANCE

Gray

PACKAGING

The TurboKrete® Concrete Patching Compound is supplied in two kit sizes. The large kit is supplied in a 3½ gallon plastic pail. The small kit is supplied in a 2 gallon plastic pail. The kit contains the two components of the liquid portion and the aggregate.

The components are:

Base Part A: Large Kit, 55 fl oz.; Small Kit 27.5 fl oz.
Activator Part B: Large Kit, 8 fl oz.; Small Kit 4 fl oz.
Aggregate Part C: Large Kit, 26.25 lbs.; Small Kit 13.1 lbs.

PRODUCT APPLICATION

SURFACE PREPARATION

New concrete must cure 28 days at 70°F (21°C) before repairs are made. Remove all dirt, grease, oil, salt or other contaminants by washing surface with 3500 System Pure Strength®, Cleaner/Degreaser, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh, clean water and allow to dry.Remove all loose, unsound, or deteriorated concrete. Abrasive blast or acid etch new or smooth concrete to create a uniform surface profile.

NOTE: The material, surface, and air temperatures should all be between 45-90°F (7-32°C) before mixing or installing TurboKrete® Concrete Patching Compound.

PRODUCT APPLICATION (cont.)

MIXING

TurboKrete® Concrete Patching Compound must be mixed with a 1/2" drill using a bird cage mixer. DO NOT attempt to mix the material by hand. Doing so can produce inconsistent mixing and may result with incomplete cure of the material. Material should not be mixed until just prior to use.

Premix Part A and Part B together before adding the aggregate.

NOTE: If priming (see PRIMING), remove no more than 6 fl oz with large kit, 3 fl oz with small kit of resin of resin at this time. Continue to mix the material while adding the aggregate, Part C. Add the aggregate at a uniform rate, do not dump in all the aggregate at once, doing so will make it more difficult to mix. Mix the material until well blended.

PRIMING

Priming is only necessary when patching areas less than ½ inch in depth. Remove no more than 6 fl oz with large kit, 3 fl oz with small kit of resin, Part A and Part B mixed together, prior to adding the aggregate. Apply a thin coat of the resin by brush to the area being repaired. Any unused resin can be mix back into the mixed material. Remember to work quickly so to not exceed the pot life. Removing up to the listed amount of resin will not effect the curing or physical properties of the TurboKrete® Concrete Patching Compound, but it will make the material a little more 'stiff'.

APPLICATION

Immediately after mixing apply the TurboKrete® Concrete Patching Compound in the area to be repaired, then work the material smooth using a hand held steel trowel. Wet the blade of the trowel with 160 Thinner to help ease the final finishing of the material.

CLEANUP

160 Thinner

Form: 2131990
Rev.: 071210

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH
METHOD: ASTM C579
RESULT: 13,400 psi

FLEXURAL STRENGTH
METHOD: ASTM C580
RESULT: 3,632 psi

TENSILE STRENGTH
METHOD: ASTM C307
RESULT: 2,124 psi

WATER ABSORPTION
METHOD: ASTM C413-83
RESULT: 0.037%

LINEAR SHRINKAGE
METHOD: ASTM C531-85
RESULT: 0.1%

IMPACT RESISTANCE
METHOD: ASTM D256
RESULT: 0.32 ft lbs/in

LINEAR COEFFICIENT OF THERMAL EXPANSION
METHOD: ASTM C531-85
RESULT: 3.95×10^{-5} in/ft

MODULES OF ELASTICITY
METHOD: ASTM C580
RESULT: 1.6×10^{6}

COEFFICIENT OF FRICTION
METHOD: ASTM C1028-89
RESULT: 0.7658

ADHESION (PULL-OFF)
METHOD: ASTM D4541-95
RESULT: 375 psi

CHEMICAL RESISTANCE (60 DAY IMMERSION TEST)

KEROSENE
RESULT: Excellent

SULFURIC ACID 10%
RESULT: Excellent

TOLUENE
RESULT: Excellent

MOTOR OIL
RESULT: Excellent

PROPYLENE GLYCOL
RESULT: Excellent

FRESH WATER
RESULT: Excellent

SALT WATER
RESULT: Very Good

SODIUM HYDROXIDE 10%
RESULT: Very Good

AMMONIA 29%
RESULT: Very Good

GASOLINE
RESULT: Very Good

MINERAL SPIRITS
RESULT: Very Good

SKYDROL 500 B-4
RESULT: Very Good

METHANOL
RESULT: Very Good

HYDROCHLORIC ACID 10%
RESULT: Good

METHYLENE CHLORIDE
RESULT: Not recommended for immersion. Can withstand occasional splash and spill.

RUST-OLEUM®

TECHNICAL DATA

5494 SYSTEM TURBOKRETE® CONCRETE PATCHING COMPOUND

PHYSICAL PROPERTIES

		5494 SYSTEM TURBOKRETE® CONCRETE PATCHING COMPOUND
Resin Type		Polyamine epoxy
Pigment Type		Mineral aggregate
Solids	**By Weight**	100%
	By Volume	100%
Coverage Per Kit		Large Kit: 0.30 cu ft; Small Kit: 0.15 cu ft
Pot Life @ 77°F (25°C) & 50% RH		30 minutes
Dry Times at 70°F (21°C) and 50% Relative Humidity	**Foot Traffic**	2½ - 4 hours with patch thickness less than 1 inch 1½ - 4 hours with patch thickness greater than 1 inch
	Topcoat	2-4 hours
	Vehicle Traffic	6-8 hours
	Full Chemical Exposure	3 days
Shelf Life		2 years
Peformance and Specification Alternatives		Can be used in USDA-regulated facilities based on FSIS Directive 11,000.4 (Rev. 4), November 24, 1995
Safety Information	**Flash Point**	Part A: 185°F (85°C), Part B: 210°F (99°C), Part C: n/a
	Lead Content	None deliberately added.
	Warning!	**WARNING. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. REFER TO MATERIAL SAFETY DATA SHEET AND LABEL FOR ADDITIONAL SAFETY INFORMATION.**

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.

RUST-OLEUM® INDUSTRIAL BRANDS

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