

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 cannot be tolerated.

This product complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

PRODUCTS

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 Krud Kutter®, Original 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

MIXING

TurboKrete Concrete Patching Compound must be mixed with a ½" 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 section). Remove no more than 6 fl. oz. of the admixed resin with large kit or 3 fl. oz. of the admixed resin with small kit 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 fluid ounces of the admixed resin with the large kit or 3 fluid ounces of the admixed resin with the small kit (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 added 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 affect 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.

TurboKrete Concrete Patching Compound can be applied up to a maximum thickness 8 inches in a single horizontal application.

CLEANUP

160 Thinner or xylene



TECHNICAL DATA

5494 SYSTEM TURBOKRETE® CONCRETE PATCHING COMPOUND

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. This product is resistant to occasional splash and spill.



TECHNICAL DATA

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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: 7.5 sq.ft. @ 0.5" - Small Kit: 3.75 sq.ft. @ 0.5"
Pot Life @ 70-80°F (21-27°C) & 50% Relative Humidity		30 minutes
Dry Times at 70-80°F (21-27°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
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

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