

DESCRIPTION

CANTOL GROUT SEALER 94 is a two component 100% solids epoxy system designed for application where a low build epoxy is needed to seal the surface of a previously placed epoxy mortar overlay system without changing the existing texture of the mortar. This product has outstanding wear resistance and superb chemical resistance.

FEATURES

- Epoxy Durability
- 100% Solids
- No VOC's
- Exceptional Sealer
- Superb Chemical Resistance
- Outstanding Wear Resistance
- Protects and Seals
- Seals and Topcoats

DIRECTIONS

PRODUCT STORAGE:

- Store product in an area so as to bring the material to normal room temperature before using.
- Continuous storage should be between 60 and 90°F (15.5-32.2°C).
- Low temperatures or great temperature fluctuations may cause product crystallization.

SURFACE PREPARATION:

- The most suitable preparation would be a fine brush blast (shot blast) to remove all laitance (fine particles on the surface of fresh concrete) and provide a suitable profile.
- All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate.
- A test should be made to determine the concrete is dry; this can be done by placing a 4'X4' (1.22X1.22 meters) plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

PRODUCT MIXING:

- This product has a mix ratio of 2 parts A (8.7-8.9#/gallon)(1.04-1.06kg/litre) to 1 part B (3.95#/gallon)(0.47kg/litre) by volume for standard colors, and 9.3#(4.2kg) part A to 4.6#(2.08kg) part B for the clear.
- Standard packages are in pre-measured kits and should be mixed as supplied in the kit.
- We highly recommend that the kits not be broken down unless suitable weighing equipment is available.
- However, a direct 2:1 mix proportioning by volume can be employed.
- After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free.
- Continue mixing for another couple of minutes to insure a homogeneous mixture.
- Make sure you scrape the bottom and sides of the pail while mixing.
- Improper mixing may result in product failure.

PRODUCT APPLICATION:

- Make certain that the epoxy mortar overlay where the product is to be applied, is clean, sound and free of all laitance, dirt, dust, oil, grease, water, or foreign contaminants.
- Apply the mixed coating by a flat flexible rubber squeegee so as to spread out the material in a uniform manner removing all excess material from the surface of the mortar; then backroll (removing all excess material) with a fine ¼" (0.635cm) nap roller.
- Depending on the porosity of the mortar overlay and the color selected, it may be necessary to apply more than one coat of material to achieve uniform coverage.
- When applied properly, the texture of the mortar will still be visible.
- Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.

RECOAT OR TOPCOATING:

- Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.
- When you recoat or topcoat this product, make sure the previous coat has tacked off before recoating. • Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence.
- Before recoating or topcoating, check to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it can be removed with CANTOL EF-90 detergent cleaner.

CLEANUP:

Use xylol, xylene, toluene, paint thinner, mineral spirits.

FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed. Best to use CANTOL EF-90. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS:

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured. It is best to let the floor remain dry for the full cure cycle (2-7 DAYS).

APPLICATIONS

Recommended for a topcoating/sealing epoxy mortar power troweled systems or hand troweled systems.

TECHNICAL DATA

Solids by weight: 100%

Solids by volume: 100%

Volatile organic content: Zero pounds per gallon

Standard colors: White, off white, light gray, medium gray, tile red, beige, and clear (clear is opaque clear)

Other colors also available: Dark gray, charcoal gray, brown, tan, and light blue. Special colors are available upon request

Recommended film thickness: 6 mils

Coverage per gallon/litre: 267 square feet per gallon (6.55 sq. meters/litre) @ 6 mils (coverage may vary depending on actual mortar porosity)

Packaging information: 3 gallon kit (25.3-25.7 pounds (11.47kg-11.65kg) net approximately)

Mix ratio: (1 gallon) part A to (0.50 gallons) part B (volumes approx.) 8.7-8.9# part A per 3.95# part B for colors and 9.3# part A to 4.6# part B for the clear or 1 litre of part A to 0.50 litres part B (volumes approx.); 1.04-1.06kg/litre part A per 0.47kg/litre part B for colors and 4.2kg/litre part A to 2.08kg/litre part B for the clear.

Shelf life: 1 year in unopened containers

Finish characteristics: Gloss (>60 at 60 degrees @ Erichsen glossmeter)

Abrasion resistance: Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 34 mg loss

Adhesion: 400 psi @ elcometer (concrete failure, no delamination)

Viscosity: Mixed= 3000-4000 cps (typical)

DOT CLASSIFICATIONS: Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

PRODUCT DATA

CANTOL GROUT SEALER *94

Flexural strength: 8,400 psi @ ASTM D790
Compressive strength: 10,700 psi @ ASTM D695
Tensile strength: 6,900 psi @ ASTM D638
Gardner variable impactor: 50 inch pounds direct – passed
Hardness: Shore D = 87
Ultimate elongation: 2.9%

CURE SCHEDULE: (70°F)(21.11°C)

Pot life – 1½ gallon volume 20-30 minutes
Tack free (dry to touch) 5-8 hours
Recoat or topcoat 9-14 hours
Light foot traffic 14-18 hours
Full cure (heavy traffic) 2-7 days

APPLICATION TEMPERATURE:

50-90°F (12.77-32.22°C) with relative humidity below 90% for best results

CHEMICAL RESISTANCE:

REAGENT	RATING
Acetic Acid 5%	C
Acetic Acid 10%	B
Acetone	C
Ammonia	C
Brake Fluid	B
Ethyl Alcohol	B
Ethylene Glycol Monomethyl Ether	B
Hydrochloric Acid 10%	C
Hydrochloric Acid 36%	C
Methylene Chloride	A
Methanol	A
Methyl Ethyl Ketone (MEK)	A
Nitric Acid 5%	C
Nitric Acid 30%	B
Phosphoric Acid 40%	C
Skydrol	C
Sodium Hydroxide 10%	D
Sodium Hydroxide 50%	C
Sulfuric Acid 10%	C
Sulfuric Acid 30%	B
Sulfuric Acid 98%	A
Water	E
Xylene	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.

PRIMER:

Recommend epoxy mortar power trowel overlay system as a starting base

TOPCOAT:

Optional: many epoxy and urethane topcoats are compatible including CANTOL 2 COMPONENT URETHANE 321.

LIMITATIONS:

- * Color stability, clarity or gloss may be affected by environmental conditions such as high humidity or chemical exposure.
- * Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
- * This product is not UV color stable, but has very good resistance to color change for an epoxy product. Therefore, a topcoat is optional.
- * Substrate temperature must be 5° above dew point (temperature at which the air becomes saturated...or 100% humidity)
- * For best results, apply with a flat squeegee, then backroll with a 1/4" (0.635cm) nap roller.
- * All new concrete must be cured for at least 30 days prior to application.
- * Mix material well before using
- * This product is intended for use over an epoxy mortar system
- Substrate temperature must be 5°F (3°C) above dew point (temperature at which the air becomes saturated...or 100% humidity).

PRECAUTIONS

Part A: **WARNING: Causes irritation.** Avoid contact with skin and eyes. . In case of contact immediately flush eyes with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance. Flush skin with water. Get medical attention if reddening or swelling occurs. Prolonged or repeated exposure may cause skin sensitization or other allergic responses. If ingested, do not induce vomiting. Drink large quantities of water. Get medical attention immediately. Inhalation: Remove to fresh air. **KEEP OUT OF THE REACH OF CHILDREN.** Wear rubber gloves and eye protection. Wash thoroughly after handling. See Material Safety Data Sheet (MSDS) for more complete information. For industrial and institutional use only.

Part B: **DANGER: Corrosive.** Causes skin and eye burns. Causes severe damage to mucous membranes if swallowed. High concentrations of vapor can cause irritation to the respiratory tract. Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses. . In case of contact immediately flush eyes with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance. Flush skin with water. Get medical attention if reddening or swelling occurs. If ingested, do not induce vomiting. Drink large quantities of water. Get medical attention immediately. Inhalation: Remove to fresh air. Seek prompt medical attention. **KEEP OUT OF THE REACH OF CHILDREN.** Wear rubber gloves and eye protection. Wash thoroughly after handling. See Material Safety Data Sheet (MSDS) for more complete information. For industrial and institutional use only.

GUARANTEE

Cantol guarantees its products, when used as directed, to do all it claims. Should the product fail to demonstrate our claims, the remaining material may be returned to us and no charge will be made.