

PRODUCT DATA

CANTOL 707 HIGH BUILD EPOXY TOPCOAT

DESCRIPTION

CANTOL 707 HIGH BUILD EPOXY TOPCOAT is a two component 100% solids epoxy colored coating designed for applications where a high build colorfast impact resistant floor is needed. Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

FEATURES

- High Impact Resistance
- High Flexural Strength
- High Compressive Strength
- Superior Adhesion
- Skydrol Resistant
- Chemical Resistant
- Abrasion Resistance
- Epoxy Durability

DIRECTIONS

PRODUCT STORAGE:

- Store product at normal room temperature.
- Continuous storage should be between 60 and 90 degree F (15.5-32.2°C).
- Low temperatures or temperature fluctuations may cause product crystallization.

SURFACE PREPARATION:

- Grinding the most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile.
- All dirt, foreign contaminants, oil and laitance (fine particles on the surface of fresh concrete) must be removed to assure a trouble free bond to the substrate.
- A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' 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.

PRODUCT MIXING:

- This product has a mix ration of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors.
- 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.
- After the two parts are co
- After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate.
- Improper mixing may result in product failure.

PRIMING:

- Cantol epoxy primer should be used before applying this product.
- If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION:

- The mixed material can be applied by brush or roller.
- However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained.
- Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOAT OR TOPCOATING:

- If you to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating.
- However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats.
- Colder temperatures will require more cure time for the product before recoating or top coating can commence.
- Before recoating or top coating, check for epoxy blushes (a whitish, greasy film or deglossing).
- If a blush is present, it can be removed by Cantol EF-90 cleaner prior to top coating or recoating.
- Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

CLEANUP: Use xylol.

FLOOR CLEANING:

- Caution! Some cleaners may affect the color of the floor installed.
- For best results, use Cantol EF-90.
- Test each cleaner in a small area

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

APPLICATIONS

Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

TECHNICAL DATA

Solids by weight: 100%

Solids by volume: 100%

Volatile organic content: Nearly zero pounds per US gallon

Standard colours: Custom colour White, off white, light gray, medium gray, tile red, and beige

Recommended film thickness: 12-30 mils

Coverage per gallon: 53-130 square feet per gallon @ 12-30 mils (4.9-39.6 square meters)

Packaging information: 3 gallon kits (2.9 – 3.0 gallons net approximately) (10.9-11.3 liters)

The Cantol logo consists of the word "cantol" in a bold, lowercase, sans-serif font. The letters are white with a blue outline. The logo is enclosed within a blue oval shape that has a white border.

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Mix ratio: 12 pounds (1 gallon)(5.4kg) part A to 4.15 pounds (.50 gallons)(1.88kg) part B (volumes approx.) (standard colours)

Shelf life: 1 year in unopened containers

Finish characteristics: Gloss (70-95 at 60 degrees @ Erichsen glossmeter)

Abrasion resistance: Taber abraser CS-17 calibre wheel with 1000 gram total load and 500 cycles = 32 mg loss

Flexural strength: 5,400 psi @ ASTM D790

Compressive strength: 9,100 psi @ ASTM D695 – 1/2 "X 1/2" bars

Adhesion: 450 psi @ elcometer (concrete failure, no delamination)

Viscosity: Mixed = 1300-2300 cps (typical, most colours)

DOT classifications: Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

Tensile strength: 4,800 psi @ ASTM D638

Ultimate elongation: 3.1%

Gardner variable impactor: 50 inch pounds direct – passed

Hardness: Shore D = 80

Cure schedule:

Pot life – 1½ gallon volume 30-50 minutes @ 70° F (21.1°C)

Tack free (dry to touch).....5-8 hours @ 70° F (21.1°C)

Recoat or topcoat.....8-12 hours @ 70°F (21.1°C)

Light foot traffic 12-14 hours @ 70°F (21.1°C)

Full cure (heavy traffic) 2-7 days @ 70°F (21.1°C)

Application temperature: 60-90 degrees F (15.5-32.2°C) with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	RATING
Xylene	C
Trichloroethylene	B
Methanol.....	A
Ethyl Alcohol.....	B
Skydrol.....	B
10% Sodium Hydroxide.....	E
50% Sodium Hydroxide.....	D
10% Sulfuric Acid.....	C
70% Sulfuric Acid.....	A
10% Hc1 (Aq).....	C
5% Acetic Acid.....	B

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. **NOTE:** Extensive chemical resistance information is available through your sales representative.

PRIMER:

Recommended Cantol 144 Epoxy Primer.

TOPCOAT:

Optional – Cantol 322 Two Component VOC Compliant Urethane can be used for increased chemical resistance or increased UV stability.

LIMITATIONS:

- Colour stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapour lights.
- Colours may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
- This product is not UV colour stable and may discolor when exposed to UV lighting. Otherwise, the colour stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
- Light or bright colours may require a suitable primer or topcoat to achieve a satisfactory hide.
- Substrate temperature must be 5°F (3°C) above dew point (temperature at which the air becomes saturated...or 100% humidity).
- All new concrete must be cured for at least 30 days prior to application.
- Apply a suitable primer before using this product as a coating.

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 thoroughl

Part B **DANGER:** Corrosive. Causes skin and eye burns. Causes severe damage to mucous membranes if swallowed. High concentrations of vapour 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 thoroughl

GUARANTEE

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

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The logo for Cantol, featuring the word "Cantol" in a bold, blue, sans-serif font, enclosed within a blue oval border.