

# PRODUCT DATA

## CANTOL 144 EPOXY COATING

### DESCRIPTION

**CANTOL 144 EPOXY COATING** is a two component solvent based epoxy coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, and substrate penetration. This product is suitable as a primer for high build coatings and urethane or as a stand-alone coating.

### FEATURES

- Seals and Protects
- Superior Penetration
- Epoxy Durability
- Chemical Resistance
- Abrasion Resistance
- Superior Adhesion
- Easy Maintenance
- Minimum Downtime
- Satin Gloss
- Custom Colours
- Flexible
- Primer or Topcoat

### 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).

#### SURFACE PREPARATION:

- Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved.
- For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast).
- All dirt, oil, dust, foreign contaminants 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. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding. See your Cantol representative for further details.

#### PRODUCT MIXING:

- This product has a one to one mix ratio by volume—merely mix equal volumes such as 1 gallon of part A to 1 gallon of part B.
- 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.
- If temperatures are below 55°F (12.7°C), let the material induct for ten minutes to help reduce the possibility of developing an epoxy blush.

#### PRODUCT APPLICATION:

- The mixed material can be applied by brush or roller.
- Maintain temperatures within the recommended ranges during the application and curing process.
- When using product without a topcoat, it is best to use the same batch of material for an entire job to prevent colour or gloss differences.

#### RECOAT OR TOPCOATING:

- If you recoat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process.
- It is best to test the coating before recoating or top coating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started.
- Always remember that colder temperatures will require more cure time for the product before recoating or top coating can commence.
- Before recoating or top coating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to top coating or recoating. Cantol EF-90 cleaner can be used to remove any blush.
- Many epoxy overlays and coatings as well as urethane are compatible for use as a topcoat for this product as well as multiple coats of this product.

**CLEANUP:** Use xylol

#### FLOOR CLEANING:

- Caution! Some cleaners may affect the colour of the floor installed.
- Test each cleaner in a small area, utilizing your cleaning technique.
- For best results, use Cantol EF-90.
- 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 (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle (2-7days).

#### APPLICATIONS

Recommended priming or coating concrete, wood or steel. This product can withstand exposure to many common solvents and chemicals.

The Cantol logo is located at the bottom center of the page. It consists of the word "cantol" in a lowercase, blue, sans-serif font, enclosed within a blue rounded rectangular border.

# PRODUCT DATA

## CANTOL 144 EPOXY COATING

### TECHNICAL DATA

**Solids by weight:** Mixed = 65%

**Solids by volume:** Mixed = 52%

**Volatile organic content:** Part A = 3.43 pounds per gallon (0.4kg/litre) Part B= 3.75 pounds per gallon (0.45KG/litre)

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

**Recommended film thickness:** 5-6 mils per coat wet thickness (yields 3 mils dry)

**Coverage per gallon (3.8 litres):** 267 to 320 square feet (24.8-29.7 sq. meters) @ 5-6 mils wet thickness

**Packaging information:** 2 gal kit = 1 gallon part A (8.5#/gal) (weights approximate) and 1 gal. part B (11.0#/gal) (weights approximate)

**Mix ratio:** 1 part A to 1 part B by volume

**Shelf life:** 1 year

**Finish characteristics:** Satin gloss (30-60 at 60 degrees @ Erichsen glossmeter)

**Abrasion resistance:** Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 30.2 mg loss

**Impact resistance:** Gardner Impact, direct= 50 in. lb. (passed)

**Flexibility:** No cracks on a 1/8" (0.31cm) mandrel

**Adhesion:** 375 psi @ elcometer (concrete failure, no delamination)

**Viscosity:** Mixed = 300-500 cps (typical)

**Shipping classifications:** Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"  
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

**Cure schedule:** (70°F) (21.1°C)

Pot life – 2 gallons volume ..... 3-5 Hours

Tack free (dry to touch) ..... 2-4 Hours

Recoat or topcoat ..... 4-6 Hours

Light foot traffic ..... 16-24 Hours

Full cure (heavy traffic) ..... 2-7 days

**Application temperature:** 40-90 degrees F (4.4-32.2°C)

### CHEMICAL RESISTANCE:

REAGENT	RATING
Acetic Acid 5%.....	A
Xylene.....	B
Methyl Ethyl Ketone.....	A
Gasoline.....	B
10% Sodium Hydroxide.....	E
50% Sodium Hydroxide.....	D
10% Sulfuric.....	C
10% Hydrochloric Acid.....	C
20% Nitric Acid.....	A
Ethylene Glycol.....	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.

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

Primer: None required

### TOPCOAT:

Optional- Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, colour stability or UV stability, top coat with a suitable aliphatic urethane such as CANTOL 322 TWO COMPONENT VOC COMPLIANT URETHANE.

### LIMITATIONS:

- Colours or gloss may be affected by high humidity, low temperatures, chemical exposure, UV exposure or lighting such as sodium vapor lights.
- Product is not UV colour stable
- For best results use a 3/8" (0.95cm) nap roller
- Slab on grade requires moisture barrier
- 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
- Product colour will vary from batch to batch
- Physical properties are typical and not specifications
- Light or bright colours (white, safety yellow, etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.

### PRECAUTIONS

Part A and Part B: **DANGER:** Harmful or fatal if swallowed. Contains petroleum distillates. If swallowed, do not induce vomiting. Call physician immediately. Vapour harmful. Use with adequate ventilation. Keep away from heat, sparks and open flame. Eye irritant. Wear goggles when using. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Seek prompt medical attention. Skin irritant. Avoid contact with skin. In case of contact, flush with soap and water. Can cause skin sensitization. Wash hands with soap and water. Wear impervious gloves. Ingestion can cause gastrointestinal irritation and corrosion to digestive tract. Inhalation: If overexposure occurs, remove to fresh air. Seek prompt medical attention. For industrial and institutional use only. **KEEP OUT OF THE REACH OF CHILDREN.** See Material Safety Data Sheet (MSDS) for more complete information.

### 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.

60N03

