

# PRODUCT DATA

## CANTOL 015 WATER BASED EPOXY SEALER

### DESCRIPTION

**CANTOL WATER BASED EPOXY PRIMER** is a two component water based epoxy coating that exhibits excellent characteristics that rival solvent based products. **CANTOL WATER BASED EPOXY PRIMER** has superb chemical resistance, abrasion resistance, and substrate penetration.

### FEATURES

- Water Based
- Chemical Resistant
- Durable Epoxy
- Abrasion Resistant
- Superior Penetration
- Primer or Top Coat
- Satin Gloss
- Easy Application

### DIRECTIONS

#### PRODUCT STORAGE:

- Store product in an area as to bring the material to normal room temperature before using.
- Continuous storage should be between 60 and 90 degrees 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 has an appropriate vapor barrier. 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 does not show signs of eventual hydrostatic pressure problems that may later cause disbanding.
- However, this product can be applied to a damp floor as long as there are not standing puddles.

#### PRODUCT MIXING:

- This product comes pre-packaged by weight.
- Kits should be mixed in their entirety.
- If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios.
- 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.
- This product is an emulsion product and should be mixed well before using.

#### PRODUCT APPLICATION:

- The mixed material can be applied by brush or roller.
- Maintain temperatures within the recommended ranges during the application and curing process.
- Apply material with relative humidity within the parameters shown on the technical data.
- When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step.
- Applications made at different times with differing environmental conditions, may show slight variations in gloss.

#### RECOAT OR TOPCOATING:

- If you recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process.
- It is best to test the coating before recoating or topcoating. 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.
- Remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence.
- Before recoating or topcoating, 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 topcoating or recoating. Cantol EF-90 detergent cleaner can be used to remove any blush.
- Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

**CLEANUP:** Use PM solvent (propylene glycol monomethyl ether).

**FLOOR CLEANING:** Caution! Some cleaners may affect the colour of the floor installed. For best results, use Cantol EF-90.

**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. (2-7 days)

### APPLICATIONS

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

### TECHNICAL DATA

**Solids by weight:** Mixed = 73% (colours); 45% (clear)

**Solids by volume:** Mixed = 41% (colours); 36% (clear)

**Volatile Organic Content:** Colours = 1.01 pounds per gallon (mixed) (0.12 kg/Litre)  
Clear = 1.0 pounds per gallon (mixed) (0.12 kg/Litre)

**Standard Colours:** Off white, light gray, medium gray, tile red, beige, and amber clear.

**NOTE:** The clear (gardner 11) is not water clear and is not suitable for topcoating over previously colour coated floors. The clear is suitable as a primer or concrete sealer only.

**Recommended Film Thickness:** 5-7 mils per coat wet thickness (yields 2-3 mils dry)

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

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Coverage per U.S. gallon: (3.8 litres): 229 to 320 square feet @ 5-7 mils wet thickness

**Packaging information:** 2 gallon and 5 gallon kits (volume approx.)

**Mix ration:** Colours = 8.55# (3.88 kg) part A (.90 U.S. gallons, approximate) to 1.75# (0.79kg) part B (.20 U.S. gallons, approximate)

Clear = 6.55# (2.97kg) part A (.80 U.S. gallons, approximate) to 1.90# (0.86kg) part B (.20 U.S. gallons approximate)

**Shelf Life:** 1 year in unopened containers

**Finish Characteristics:** Satin gloss (40-80 at 60 degrees @ Erichsen glossmeter)

**Abrasion Resistance:** Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss

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

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

**Adhesion:** 425 psi @ elcometer (concrete failure, no delamination)

**Viscosity:** Mixed = 900-1200 cps (colours); 400-900 cps (clear) (typical)

**DOT Classifications:** Not regulated

### Cure Schedule:

Pot Life – 1 U.S. gallon volume (3.8 Litres)..... 1.0 – 1.5 hours

Tack free (dry to touch).....5-8 hours

Recoat or topcoat .....7-10 hours

Light foot traffic .....16-24 hours

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

### APPLICATION TEMPERATURE:

55-90 degrees F (12.8-32.2°C) with relative humidity below 75%

### CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid 5%.....	B
Xylene.....	B
Methyl Ethyl Ketone.....	A
Gasoline.....	B
10% Sodium Hydroxide.....	C
50% Sodium Hydroxide.....	B
10% Sulfuric.....	B
10% Hydrochloric Acid.....	B
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 Cantol sales representative.

### PRIMER:

Use this product as the primer.

### TOPCOAT:

Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane, such as Cantol 2 Component VOC Compliant Urethane.

### LIMITATIONS

- Colour or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.
- Product will yellow in the presence of UV light.
- For best results use a 1/4" (0.63cm) or 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 color will vary from batch to batch. Use only product from the same batch for an entire job.
- Improper mixing or too thick of an application may result in product failure.
- Light or bright colours (white, safety colours etc) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.

### PRECAUTIONS

Part A and Part B: **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 asthma and 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. 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.