

# PRODUCT DATA

## CANTOL #1 COVE MASTER EPOXY MORTAR

### DESCRIPTION

NP-1 is a three component 100% solids epoxy mortar designed for cove base surface applications. This product has specially selected aggregate and ingredients to provide easy construction of cove bases with the use of a marginal trowel or other cove base application tools. Recommended for any type of cove base applications. Not recommended for immersion applications for all acids and chemicals.

### DIRECTIONS

#### PRODUCT STORAGE:

- Store product in an area so as to bring the material to normal room temperature before using.
- Continuous storage should be above 55° F to prevent product crystallization.

#### SURFACE PREPARATION:

- All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate.
- We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate.
- All edges and around columns or beams should be mechanically scarified.
- All termination points should not be feather edged, but should be saw cut with the termination ending at the sawcut or blended into an applied epoxy floor overlay.
- All large cracks should be V cut and filled with appropriate crack filler.
- All expansion joints should be filled with appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing.
- A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet 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.

#### PRIMING:

- No primer is necessary. This material is self priming. However, any suitable primer can be used.

#### PRODUCT MIXING:

- It is important that the liquids be mixed together first.
- Mix the liquids in an oversized container thoroughly and until streak free.
- After the liquids are thoroughly mixed, add in the aggregate.
- Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer or rotating bucket/stationary mixing blade assembly. It is equally important that enough time is spent mixing in the aggregate to insure that the aggregate is thoroughly wetted out.
- No induction time is necessary.
- Improper mixing may result in product failure.

#### PRODUCT APPLICATION:

- Apply the mixed material using a marginal trowel, cove base trowel or any other suitable application equipment at a minimum 1/8 inch thickness. • Do not over trowel the material as this may cause isolated blisters to form.
- Maintain temperatures within the recommended ranges during the application and curing process.

#### RECOAT OR TOPCOATING:

- No recoating or topcoating is necessary.
- However, if you opt to topcoat the applied mortar, allow it to cure before topcoating.
- Many epoxies and urethanes can be used.
- Contact your sales representative for suitable topcoat selections.

The logo for Cantol, featuring the word "Cantol" in a bold, blue, sans-serif font. The text is enclosed within a blue rounded rectangular border that has a slight 3D effect, with a white shadow on the right side.

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**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. 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.

**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:** 100%

**Volatile organic content:** Zero pounds per gallon

**Standard colours:** Natural, Light Gray, Dark Gray, and Red

**Recommended thickness:** as needed to form the cove base with a 1/8" minimum

**Coverage per unit:** depends on style or type of cove base applied

Packaging:	Cubic Feet
1/2 Unit	.125 (approx)
Unit	.25 (approx)

\*Unit = 4.25 lbs. Part A, 1.9 lbs. Part B, 26.5 lbs. Aggregate. (Weights are approximate)

**Mix ratio:** \*Unit = .45 Gallons Part A to .23 Gallons Part B plus 26.5 lbs. Aggregate (weights and volumes approximate)

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

**Flexural strength:** 15,000 psi @ ASTM D790

**Compressive strength:** 14,575 psi @ ASTM D695

**Tensile strength:** 9,200 psi @ ASTM D638

**Ultimate elongation:** 3.1%

**Impact resistance:** excellent

**Abrasion resistance:** excellent

**Heat deflection temp.:** 62.25° C @ ASTM D648

**Weathering:** good (chalks)

**Viscosity:** Part A= 2,200-2,700 CPS, Part B= 200-300 CPS

**DOT Classifications:** Part A & C "not regulated"  
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

**Cure Schedule:**

Pot Life – .25 Cu.ft. Mix..... 25-35 Minutes

Recoat or Topcoat..... 6-10 Hours

Light Foot Traffic ..... 8-10 Hours

Full Cure (Heavy Traffic) ..... 2-7 Days

**Application temperature:** 55-90° F (12.8-32.2°C) with relative humidity below 75%

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### CHEMICAL RESISTANCE

REAGENT	RATING
Xylene.....	C
1,1,1 Trichloroethane .....	B
MEK.....	A
Methanol.....	A
Ethyl Alcohol.....	C
Skydrol.....	B
10% Sodium Hydroxide .....	E
50% Sodium Hydroxide .....	E
10% Sulfuric Acid .....	C
70% Sulfuric Acid .....	A
10% HCl (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 Cantol sales representative.

### PRIMER:

None required, however, in some applications a primer such as our Cantol162 can aid in application.

### TOPCOAT:

None required.

### LIMITATIONS

- Colour stability may be affected by environmental conditions such as high humidity or chemical exposure as well as UV exposure.
- Colours may vary from batch to batch due to variations in the silica filler.
- Mortar colours are not from our standard colour chart.
- Substrate temperature must be 5°F above dew point.
- For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
- All new concrete must be cured for at least 30 days prior to application.
- See reverse side for application instructions.
- Test data based on neat resin.

### 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.

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**cantol**