

### DESCRIPTION

**CANTOL 128 ARCTIC FORMULATION** is a three component 100% solids epoxy mortar designed for applications where temperatures are as low as -10° F.

### FEATURES

- Epoxy Durability
- 100% Solids
- No VOC's
- Abrasion Resistance
- Impact Resistant
- Easily Topcoated
- Self Priming
- Wear Resistant

### 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 (12.77°C) to prevent product crystallization.

#### SURFACE PREPARATION:

- 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.
- We recommend that an aggressive shot blast be performed prior to the application of this product.
- A less adequate method would be acid etching with CANTOL ACI-TECH, 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.
- All large cracks should be V cut and filled with an appropriate crack filler.
- All expansion joints should be filled with an appropriate joint filler.
- When overlaying an expansion joint, a single saw cut through the epoxy overlay would prevent random fracturing.
- A test should be made to determine that the concrete is dry (when the surface temperature is above 32° F); this can be done by placing a 4'x4' (1.22 X 1.22 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.

#### PRIMER:

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.
- Have the liquids at normal room (70° F) temperature and then take them into the area where the repair is to be made.
- **CAUTION!** This material has a very, very short pot life; be prepared to work efficiently and in an organized manner.
- Mix the liquids in an oversized container quickly and thoroughly until streak free. After the liquids are mixed, add in the aggregate immediately.
- Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer (quickly).
- No induction time is necessary.
- Mix only an amount of material that can be used in the prescribed pot life period.

# PRODUCT DATA

## CANTOL 128 ARCTIC FORMULATION EPOXY MORTAR PATCH KIT

### PRODUCT APPLICATION:

- Apply the mixed material at 1/8 to 1/4 inch (0.317 to 0.635 cm) thickness.
- Apply the material with a hand trowel or other suitable application equipment.
- Do not over-trowel the material as this may cause isolated blisters to form.
- Air currents directly across or above the mortar during the curing process 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 wish to topcoat the applied mortar, allow it to cure before topcoating. Many epoxies and urethanes can be used at elevated temperatures. Contact your Cantol representative for suitable topcoat selections.

### CLEANUP:

Use xylo.

### FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. Best to use CANTOL EF-90 detergent cleaner. 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.

### APPLICATIONS

Recommended for cold storage areas, freezers or general outdoor patching in the winter. It is not recommended for immersion applications for acids and chemicals.

### TECHNICAL DATA

**Solids by weight:** 100%

**Volatile organic content:** zero pounds per gallon (3.785 litres)

**Standard colors:** This product is available as a natural unpigmented product only.

**Recommended thickness:** 1/8" to 1/4" (0.317-0.635 cm)

**Coverage per unit:** 5.98 sq. ft. @ 1/4" and 11.96 sq. ft. @ 1/8".

Packaging cubic feet

kit .125 (approx)

\*KIT= 2.0 lb for part A, 0.90 lb for part B, and 13 lbs aggregate. (Larger size kits are not available because of the short pot life, all weights are approximate)

**Mix ratio:** \*UNIT= .21 gallons part A to .10 gallons part B plus 13 lbs aggregate (weight and volumes approximate)

**Shelf life:** 2 years in unopened containers

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

**Compressive strength:** 11,000 psi @ ASTM D695

**Tensile strength:** 8,900 psi @ ASTM D638

**Ultimate elongation:** 3.4%

**Impact resistance:** excellent

**Abrasion resistance:** excellent

**Heat deflection temp.:** 56.0° F @ ASTM D648

**Weathering:** good (chalks)

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## CANTOL 128 ARCTIC FORMULATION EPOXY MORTAR PATCH KIT

**Dot classification:** Part A & C “not regulated”  
Part B “CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII”

**Viscosity:** Part A = 900-1000 cps, Part B = 200 cps maximum

### CURE SCHEDULE:

Pot Life (.125 Cu. Ft. Mix) .....2-4 Minutes  
Recoat Or Topcoat..... 1-2 Hours  
Light Foot Traffic.....2-4 Hours  
Full Cure (Heavy Traffic) ..... 1-3 Days  
\*Traffic Serviceable .....12 Hours @ 30°F

### APPLICATION TEMPERATURE:

-10 – 40° F

### CHEMICAL RESISTANCE:

REAGENT	RATING
Xylene	C
1,1,1Trichloroethane	C
MEK	A
Methanol	A
Ethyl Alcohol	C
Skydrol	A
10% Sodium Hydroxide	D
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.

### PRIMER:

None required

### TOPCOAT:

None required. For increased performance and reduced porosity, see your Cantol representative for the correct topcoat.

# PRODUCT DATA

## CANTOL 128 ARCTIC FORMULATION EPOXY MORTAR PATCH KIT

### LIMITATIONS:

- \* Colour stability may be affected by environmental conditions such as high humidity or chemical exposure.
- \* Epoxy products are not UV colour stable and may discolour if exposed to certain types of light such as sodium vapour lighting.
- \* 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 50° F (3°C) above dew point (temperature at which the air becomes saturated...or 100% humidity)
- \* 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.

### PRECAUTIONS

**PART A: WARNING:** Causes irritation. Avoid contact with skin and eyes. Use with adequate ventilation. Wear goggles when using. Wear gloves impervious to chemicals. Wash thoroughly after handling. Keep away from heat, sparks and open flame. Close container after each use. May cause skin sensitization. **FIRST AID:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek prompt medical attention. Flush skin with soap and water. If ingested, do not induce vomiting. Call a physician. Inhalation: remove to fresh air.

**PART B: DANGER: CORROSIVE.** Avoid contact with skin and eyes. Use with adequate ventilation. Wear goggles when using. Wash thoroughly after handling. Keep away from heat, sparks, and open flame. Close container after each use. May cause skin sensitization. **FIRST AID:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek prompt medical attention. Flush skin with soap and water. If ingested, do not induce vomiting. Call a physician. Inhalation: remove to fresh air. 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.