



# CE820 EPOXY CHOCK

## EPOXY RESIN MACHINE CHOCK

**ITEM NUMBER** CE820

### DESCRIPTION

CE820 EPOXY CHOCK is a two-component, 100% solids, high performance epoxy machine grout. It is characterized by high early and ultimate strength, high bearing area, low exothermic, negligible shrinkage and creep, fast cure and excellent flowability. It can also use as anchor adhesive.

### INDUSTRY USES

CE820 EPOXY CHOCK is ideal for high stress applications in such industries like wind turbine, gas transmission, refining, chemical processing, pulp and paper, steel rail, marine and other machine base plate grouting applications in the heavy industrial equipment industries. New equipment installations or quick re-grouting applications subject to chemical attack and extreme vibration are ideal for CE820 EPOXY CHOCK. Can be used for anchoring in large annular areas and an anchoring adhesive.

### TECHNICAL DATA

LABORATORY TESTS	RESULTS
Color	Dark Gray
Gel Time	30 minutes
C 579 Compressive Strength C 579 Compressive Modulus	19,000 psi 2,000,000 psi
C 307 Tensile Strength	5,000 psi
C 580 Flexural Strength C 580 Modulus Elasticity	7,500 psi 2,000,000 psi
C 882 Bond Strength	3,500 psi
C 531 Linear Shrinkage on cure	0.02%
C 531 Coefficient of Thermal Expansion	$16 \times 10^{-6}$ in/in/°F
D 2240 Shore D Hardness	90
C 431 Water Absorption	0.0%
D 635 Fire Resistance	Self-Extinguishing
Pour Depth at 75 of	Up to 3 inches
Initial Cure Time	
@60° F	36 hours
@65° F	24 hours
@70° F	18 hours
@75° F	12 hours
@80° F	8 hours
@85° F	6 hours
@90° F	4 hours
@95° F	3 hours

### PACKAGING

0.50 cu. ft. kit: 3.75-gal Part A, 1-quart Part B.

Appearance: Component A- gray, Component B- clear

Shelf Life: 2 years in original unopened container

Storage Conditions: Store at 40° F – 95° F (4.4° C – 35° C). Condition material to 65° F – 95° F (18° C – 35° C) before using.

### LIMITATIONS

Typical grouting depth is half inch to 2 inches. For pour depths greater than 2 inches contact CCM technical support regarding the use of Aggregate Extender. Minimum application temperature 50°F. Do not thin. Solvents will prevent proper cure.



# CE820 EPOXY CHOCK

## SURFACE PREPARATION

Concrete shall have reached its design strength and be dimensionally stable prior to placement of CE820 EPOXY CHOCK. All surface contamination must be removed by mechanical means, creating a surface profile of exposed sound aggregate that will provide a strong bond surface for the CE820 EPOXY CHOCK. All metal surfaces to come in contact with grout should be sandblasted to white metal finish and wiped clean with solvent. Items not intended to bond to grout, such as leveling screws, wedges and bolts must be protected with wax, caulk, duct tape or similar.

**Form Preparation:** Forms should be coated with minimum of two coats of industrial grade paste wax to facilitate removal of forms after cure. Forms should have 45° angle chamfer strips at all vertical corners and horizontal grout grade elevation in order to eliminate sharp corners. Caulk or similar sealant should be used to render the forms "watertight". Foundation bolts, shims and jacking bolts should be wrapped with 1/8" layer of weather stripping. Expansion joints shall be used every 4 foot spacing in each direction to minimize the potential for cracking in epoxy chock. **MACHINERY MUST BE IN FINAL ALIGNMENT POSITION PRIOR TO POURING CE820 EPOXY CHOCK.**

## MIXING

Resin and hardener should be conditioned to between 65° F (18° C) and 95° F (35°C) for at least 12 hours before use. Pour Part B into the Part A container and mix thoroughly for 3 to 4 minutes with a low speed drill at 200 rpm. Keep the mixer completely submerged to prevent air entrainment. Remove material completely from around the sides and bottom of the container with a spatula to ensure a complete and uniform mix.

## APPLICATION

Always pour CE820 EPOXY CHOCK from the lowest side of the chock area, which will force air to escape through the opposite corner. Continue to pour slowly until the entire chock area is filled and the chock over pour area is filled to a level approximately 1/2 inch (12 mm) above the bottom of the bedplate.

**Temperature Considerations:** At the completion of the curing cycle the temperature shall be lowered slowly, no more than 40°F (4.4°C) in 48 hours to avoid the possibility of damage due to sudden contraction.

## CLEANUP

Ventilate area. Confine spill. Collect with absorbent material, flush area with water. Dispose of in accordance with current applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

## LIMITED WARRANTY

All information provided by Cornerstone Construction Material LLC (CCM) concerning CCM products, including but not limited to, any recommendations and advice relating to the application and use of CCM products, is given in good faith based on CCM's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with CCM's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of CCM's control are such that CCM assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the CCM product(s) must test the product(s) for suitability for the intended application and purpose before proceeding the full application of the product(s). CCM reserves the right to change the properties of its products without notice. All sales of CCM product(s) are subject to its current terms and conditions of sale.

Prior to each use of any CCM product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Safety Data Sheet which are available at [www.ccmaterial.com](http://www.ccmaterial.com). Nothing contained in any CCM materials relieves the user of the obligation to read and follow the warnings and instruction for each CCM product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use.

CCM warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

**NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CCM SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. CCM SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A**



Cornerstone  
Construction  
Material, LLC

## **CE820 EPOXY CHOCK**

---

**MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**