



# ChemMasters®

## Cable Grout

High Performance, Zero Bleed,  
Sand Free Grout for  
Post Tensioned Structures

SPECIALTY CONSTRUCTION PRODUCTS

### P R O D U C T                      D A T A

#### DESCRIPTION

**ChemMasters' Cable Grout** is non-shrink sand free cement based grout that contains a unique two stage shrinkage compensation mechanism. **Cable Grout** is nonmetallic and contains no chlorides. **Cable Grout** contains silica fume to reduce permeability and improve corrosion resistance.

#### ADVANTAGES

- Zero bleed and segregation even when used in high flow conditions
- Pumps easily
- Superior freeze/thaw resistance
- Sand free silica fume formula makes product low permeability with superior corrosion protection
- Easily pumps into very narrow applications
- Easy to use. Just add water
- Nonmetallic. Will not stain or rust

#### USES

- **Cable Grout** is specifically designed to grout horizontal or vertical ducts within bonded post tensioned structures.
- Use **Cable Grout** to fill voids within post tensioning strands where corrosion protection is critical.
- Use **Cable Grout** for any grouting application where there are tight clearances and a cement based grout is appropriate.

#### TECHNICAL DATA

Total Chloride Ions (ASTM C1152) < 0.08% by weight of cementitious material

##### Set Times ASTM 191/Vicat Method Hours to set

Initial	Final
3	8

##### Compressive Strength ASTM C 942

	1 day	7 days	28 days
psi	3,350	7,510	8,640

##### Expansion ASTM 1090

1 day	28 days
+0.20%	+0.32%

##### Efflux Times ASTM C 939

Initial	<30 seconds
After 30 minutes	<30 seconds

##### Bleed Test

ASTM C 940	0.0% after 4 hours
Gelman Pressure Test	0.0% @ 100 psi for 5 minutes

##### Permeability ASTM C 1202

28 days	<1,500 coulombs
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##### Packaging Product Number

50 lb (22.7kg) bags	60 per pallet	F2325.50
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##### Yield per 50 lb (22.7 kg)

0.50 ft <sup>3</sup>	0.014 m <sup>3</sup>	With 16 pts (7.56L)
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### ChemMasters®

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## DIRECTIONS

Grouting is best accomplished at temperatures from 40° to 90°F (4° to 32°C). For extremely low or high temperatures, follow the guidelines established by ACI for cold or hot weather grouting or consult ChemMasters' Technical Service Department for additional recommendations. It is advisable to have a ASBI certified technician on the job site.

**PREPARATION:** The concrete substrate must be clean and free of any curing or sealing compounds, dust, dirt, oil, and grease.

**MIXING:** Wet the mixer and blades. A high shear or colloidal type mortar mixer, grout pump, or heavy duty 1/2" drill with mixing prop are required. **Cable Grout** will require between 13 and 16 pints of water per 50 lb (23.7kg) bag. Do not use excess water this decreases strength and expansion. Place about 13 pints of water per 50 lb (23.7kg) into the mixer, start the motor, gradually empty Cable Grout in to the mixer, mix for about 1 minute, add remaining water, 3 more pints per 50 lb (23.7kg) bag maximum, and mix for another 3 to 4 minutes. Following this sequence should eliminate lumping and keep mixer clean and free of excess buildup. Screening the mixed **Cable Grout** from the mixer to the hopper to remove lumps is recommended.

**PLACEMENT:** Continue to agitate material in the holding hopper to prevent loss of flow. Always place grout from one side at a steady, continuous flow to push air out in front of grout flow ensuring maximum surface bearing of the plate or base. Do not vibrate grout. The grout should be used within 60 minutes of mixing. When grouting ducts or critical elements it is highly recommended that experienced technicians be used to complete the work.

**CURING:** Proper curing is required. As soon as grout placement is complete, wet cure the exposed surfaces, or apply ChemMasters' **Polyseal, Polyseal WB, Safe Cure 1200, or Safe Cure 1200 Clear**. If wet curing wet burlap may be used following the guidelines in ACI 351, *Grouting for Support of Equipment and Machinery*.

**CLEANUP:** Clean tools and equipment with warm water before material dries and hardens.

## LIMITATIONS

- Do not apply to frost covered or frozen surfaces or at substrate or ambient temperatures below 40°F (4°C). Follow ACI 305 *Hot Weather Concreting* and 306 *Cold Weather Concreting* guidelines for placement when temperature is below 40°F (4°C) or above 90°F (32°C).
- Do not use as a patching or overlay mortar or in unconfined areas

- Place material within 60 minutes of mixing
- Avoid contact with aluminum. Coat aluminum with an appropriate epoxy such as **Duraguard 100** before it comes in contact with **Cable Grout**.
- ChemMasters recommends the use of ChemGrout mixers and pumps.

Contact ChemMasters' Technical Service Staff for special recommendations on precision grouting, dry pack situations or unusual circumstances

**Storage:** Store in a cool dry location off the ground. Unopened bags can be stored for up to 2 years when kept dry.

## Precautions:

**DANGER:** Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled. Precautionary Statements: Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

## Keep out of reach of children.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

Use the most current Safety Data Sheet and Product Data Sheet available at [www.chemmasters.net](http://www.chemmasters.net) or contact ChemMasters' Technical Service Department at 800-486-7866.

### This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.