



**Manufacturers of
Professional Grade Cement &
Construction Products Since 1967**

7/01-1

PRO GROUT 100

NON SHRINK GROUT

DESCRIPTION:

PRO GROUT 100 is a premium non-shrink, non-ferrous grout that is easily mixed for grouting at any consistency; dry-pack, plastic, or pourable. It contains no iron particles chlorides or gypsum, and will not corrode, shrink, rust or ravel even under consistently moist conditions. When mixed according to instructions, it produces a high compressive strength due to a technology that reduces the water/cement ratio.

BENEFITS:

- One-step, ready to use. Just add water
- High density, increases bond to metal, wood and other materials.
- Will not rust, bleed or harm materials it contacts.
- Requires no special treatment on open ends, or edges. No capping or cutbacks.
- Clean finish. May be coated, trowel finished, or painted.
- Density increases wearability and permeability; withstands heat and thermal shock.
- Water tight, resist freeze/thaw, water conditions and salt penetration.
- Resists a variety of oils and chemicals.
- Contains no free lime. Will not produce efflorescence.
- Can be over watered by 0.9 pints to 9.1 pints per bag and still give high compressive strengths and long working time.

YIELD:

Yield per 50 lb. Bag
Fluid - .42 cu.ft/bag

WATER REQUIREMENTS:

Plastic Mix	6.4 pints
Flowable Mix	7.3 pints
Fluid Mix	8.2 pints

LIMITATIONS:

Temperatures between 50° F and 80° F (10° C – 27° C) have no effect on the grouting procedure. When temperatures fall below 50° F around the area to be grouted, the mixing water and the dry grout should be warmed to not more than 80 F. Use ACI-306-87 “Standard on Cold Weather Concreting” as a guide, however, when temperatures of 80° F or more prevail, the grout and mixing water should be cooled

as per ACI-305-89 “Standard on Hot Weather Concreting”. (Do not add accelerators to PRO GROUT 100). Grouted surfaces that are exposed to the atmosphere should be treated with a clear curing compound such as CGM Perma Seal to prevent rapid shrinking and cracking. If damp curing is applied, keep the grout moist for at least 24 hours.

APPLICATION RECOMMENDATIONS

PRO GROUT 100 is recommended for grouting the following:

- Heavy equipment and machinery bases
- Structural columns
- Pump and equipment bases
- Power line stanchions
- Pre-case tee joints
- Re-pointing mortar joints
- Structural cracks
- Bearing plates
- Rail posts, seating bolts
- Post tensioned cables
- Patching

SPECIFICATIONS:

PRO GROUT 100 meets or exceeds the following specifications:

ASTM C-1107, standard specification for packaged dry, hydraulic cement grout (non-shrink).

CRD –C 621-89, specification for non-shrink grout

CRD – C 614, method of test for time of setting of grout mixtures.

ASTM C-109, standard test for compressive strength of hydraulic cement mortars.

ASTM C-266, (CRD-C 222), standard test for time of setting of hydraulic cement by Gillmore Needle.

ASTM C-232 (CRD-C 79), standard method of test for bleeding of concrete.

ASTM C-827-82, standard test method for early volume change of cementitious mixtures.

ASTM C-942, standard test method for compressive strength of grouts for replaced aggregate concrete in the laboratory.

Test reports are available upon request.

MIXING AND PROPORTIONS:

PRO GROUT 100 is a one step, ready to use mixture. Just add water, nothing more. For uniform mix, use paddle or drum type mechanical mortar mixers. Do not mix for more than 5 minutes. Place grout immediately after mixing. Do not mix more grout than can be placed within the allotted work time.

The temperature of the grout, the atmosphere, and the configuration of the area to be grouted can each or in combination affect the time during which grout can be successfully worked. To be safe, complete grouting within 40 minutes of the mixing of water to the batch. The minimum working time is 45 minutes.

SURFACE PREPARATION:

First remove all dirt, oil, grease or contaminants from surfaces to be grouted. Then remove all loose material. Metals which will come in contact with grout must be de-rusted, or freed of paints, oils and greases. To avoid entrapment of air, provide air relief openings where required. Prior to placement of grout, thoroughly soak or dampen all concrete areas to be grouted. Then remove excess water from voids and holes.

FORMING:

For machinery bases and column base plates: Follow standard forming procedures, which permit complete and proper placement of fluid grout, including use of head forms. All support elements should be anchored to prevent movement. Do not remove supports until grout has sufficiently hardened. Wood surfaces, which absorb moisture, should be pretreated with forming oils. When grouting edges of concrete which are less than 1" thick, cut edges back to form a uniform butt.

PLACEMENT:

Follow the standard grouting procedure and recommendations of ACI for the placement and curing to concrete. Use chains, rods, or tamping devices to compact grout, taking care to remove all air voids. For optimum results, air temperature should be near 72° F. Pour grout quickly and continuously, striking off exposed areas. Finished PRO GROUT 100 should be cured for 72 hours for base plate application.

KEEP OUT OF REACH OF CHILDREN.

COMPRESSIVE STRENGTHS (psi):

	Plastic	Flowable	Fluid
3 Days	6100	5200	5100
7 Days	10250	9175	7400
28 Days	11100	10125	8500

EXPANSION (RESTRAINED) CRD C-621-89:

	3 Days	14 Days	28 Days
PLASTIC	.05	.05	.05
FLOWABLE	.03	.03	.03
FLUID	.03	.02	.02
MODULUS OF ELASTICITY	4.5 x 10 ⁶ psi		

PACKAGING:

PRO GROUT 100. is available in 50 lb. bags.

SHELF LIFE:

When stored in original, un-opened container, one year. Rotate your stock.

GENERAL INFORMATION:

Please contact CGM, Inc. at any of the following numbers for customer service or technical assistance:

Voice: 215-638-4400
Toll Free: 800-523-6570
Fax: 215-638-7949
E-mail:
Sales /Technical: ebrunner@cgmcement.com
bruby@cgmcement.com
Technical: fkinney@cgmcement.com
Inside Sales: ckauffman@cgmcement.com
On the web @: www.cgmbuildingproducts.com

WARNING:

Freshly mixed mortar, grout, or concrete may cause skin irritation. Avoid direct contact where possible, and wash exposed skin areas promptly with water. If any of the cementitious material gets into the eyes, rinse immediately and repeatedly with water. This product contains free Silica. Do not breath the dust. Inhalation may cause delayed lung injury (silicosis). Use NIOSH approved respirator.

WARRANTY:

CGM INC. warrants this product to be free of manufacturing defects. The sole responsibility and maximum liability of CGM under this warranty shall be at CGM's option, either (1) to replace the defective product in the form the product was purchased but not in the form the product was installed or used, or (2) to refund the purchase price of the product. In no event shall CGM be liable to the purchaser or to any third party for any loss or damage, of any type, including but not limited to incidental and/or consequential damage, resulting from the purchase or use of this product. In the event of any claim under this warranty, written notice must be given by registered mail.

This warranty is in lieu of all other warranties, expressed or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. Information contained herein is for evaluation purposes only. While CGM believes this information to be true and accurate as of this printing of this material, CGM shall have no obligation to notify purchasers of any error which is subsequently discovered in this information. CGM reserves the right to modify or improve any of its products, at any time without prior notice.

CGM, INC., 1445 FORD RD., BENSALEM, PA. 19020, VOICE: 215-638-4400 FAX: 215-638-7949
WEB: www.cgmbuildingproducts.com