



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

7/01-1

PRO GEL MORTAR

POLYMER MODIFIED, NON-SAG, FAST SETTING

DESCRIPTION:

PRO GEL MORTAR is a polymer modified, non-sag, two component, fast setting gel mortar. **PRO GEL MORTAR** is formulated specifically for trowel applications on vertical and overhead surfaces.

USES AND APPLICATIONS:

- Filling form tie-holes, honeycombs and other voids in concrete and masonry
- Patching concrete and masonry on vertical and overhead surfaces, interior and exterior, above and below grade.
- Structurally repairing concrete on parking facilities, ramps, bridges, tunnels and balconies.

ADVANTAGES:

1. High early compressive, tensile and flexural strengths
2. Very low shrinkage
3. Compatible with the thermal movement of concrete
4. Excellent freeze/thaw resistance
5. Excellent bond strength
6. Increased abrasion resistance
7. Resistant to dilute acids and mild chemicals
8. Fast setting and self curing
9. Pre-proportioned units to insure consistency and facilitate mixing.

SPECIAL NOTES:

- The minimum ambient and surface temperatures must be 45° F and rising at application time.
- Apply only to a clean, sound and properly prepared substrate.
- The maximum application thickness is 1/8"
- Do not mix longer than 5 minutes
- Do not apply solvent-based curing compounds over PRO GEL MORTAR.

SURFACE PREPARATION:

The existing concrete must be clean and sound. For patching applications, saw cut a vertical edge of at least 1/8" around the perimeter with a masonry saw. Remove all laitance, grease, dust, curing compounds, bond inhibiting materials, spalled and unsound concrete from the patch area.

If reinforcing steel is exposed, follow ACI standards. All rust must be removed and rebar primed. If reinforcing steel must be replaced, follow ACI standards for the removal and installation of reinforcing steel.

For patching above the first elevation, it is recommended that steel pins be secured in the parent concrete. This will insure the integrity of the patch.

PRIMING:

The use of a primer is usually not necessary. However, when porous concrete is encountered, the use of slurry coat is recommended. The slurry coat (one part latex, two parts powder) should be thoroughly brushed into the substrate. Once the coating becomes tacky, the PRO GEL MORTAR can be applied.

MIXING:

PRO GEL MORTAR may be mixed by manual or mechanical means. Manually mix in a pail, wheelbarrow or mortar box. Mechanically mix using a heavy duty, slow speed drill with a mixing paddle or mix using a mortar mix. By either means, add 1 gallon of **PRO LATEX BINDER** into a mixing compound. Add PRO GEL MORTAR while continuing to mix. Mix to a uniform consistency. Depending on the consistency desired, 8 ounces of additional water may be added. Do not mix for longer than 5 minutes.

WORKING TIME:

PRO GEL MORTAR has a working time of 10-15 minutes at 70° F (21° C) PRO GEL MORTAR may finish 15-20 minutes after the material has been placed. The working and finishing times are dependent on ambient and surface conditions.

APPLICATION:

PRO GEL MORTAR should be placed immediately after mixing. The surface of the concrete should be saturated surface dry (SSD) at the time of the application. First force the PRO GEL MORTAR into the surface voids of the patch area with a trowel to ensure mechanical bonding. Next, continue to fill the patch area then bring the mortar above the level of the existing concrete surface. Allow the mortar to set up to the desired stiffness, shave flush with the side of a trowel to the surrounding surface and then apply the finish. For a smooth finish, use a trowel, sponge float or wood float. For a rough finish, use a broom or a tine.

YIELD:

PRO GEL MORTAR will yield approximately 0.5 ft. per unit.

CURING:

Patching applications do not need special curing. However, when premature drying conditions exist (high temperature, direct sunlight, low humidity, strong winds) a water based curing compound can be used.

COLOR:

When mixed, PRO GEL MORTAR is concrete gray.

PRECAUTIONS:

1. Dispose of waste materials in accordance with Federal, State and local regulations.
2. Component B contains Portland cement and free silica. Avoid breathing dust, use with adequate ventilation. The use of a NIOSH/MSHA approved respirator is recommended.
3. Both components are skin and eye irritants, avoid prolonged contact. The use of NIOSH/MSHA approved safety goggles and rubber gloves is recommended.
4. Contains Free Silica. Do not breath the dust as inhalation may cause delayed lung injury (silicosis) and is a carcinogen.
5. In case of eye contact, flush with water. Wash skin with soap and water if contact occurs. Consult a Physician
6. Use only with adequate ventilation
7. Keep out of reach of children

SHELF LIFE:

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

PACKGING:

PRO GEL MORTAR is packaged in a 55 lb. bags.

TECHNICAL DATA:**Compressive Strength (ASTM C109):**

1 day	2,200 psi
7 day	4,700 psi
29 days	5,200 psi

Flexural Strength (ASTM C 348)

28 days	1,500 psi
---------	-----------

Bong Strength (ASTM C 882):

28 days	1,800 psi
---------	-----------

Drying Shrinkage (ASTM C 157):

28 days	0.09%
---------	-------

Freeze/Thaw Resistance (ASTM V 666) Method B

50 cycles	Durability 98.2%
-----------	------------------

STORAGE CONDITIONS:

Store PRO GEL MORTAR at or above 45° F (7° C) in a dry area. Avoid excessive heat or humidity and temperatures above 95° F (35° C).

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

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