



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

7/01-1

PRO TROWEL MORTAR

POLYMER MODIFIED, FAST SETTING, SELF CURING

DESCRIPTION:

PRO TROWEL MORTAR is a two component, polymer modified, trowelable, cementitious, patching and resurfacing mortar. **PRO TROWEL MORTAR** is formulated specifically for patching concrete on horizontal and vertical surfaces.

USES AND APPLICATIONS:

- Resurfacing un-level or damaged concrete
- Pitching or sloping areas for water run off
- Patching concrete on horizontal and vertical 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.

SPECIAL NOTES:

- The minimum ambient and surface temperatures must be 45° F (7° C) and rising at application time.
- Apply only to a clean, sound and properly prepared substrate.
- The maximum application thickness is 1/2"
- Do not mix more than 2 minutes (3 minutes when adding aggregate)
- Do not apply solvent-based curing compounds over PRO TROWEL MORTAR.

SURFACE PREPARATION:

The existing concrete must be clean and sound. For patching applications, saw cut a vertical edge of at least 1/2" around the perimeter with a masonry saw. Remove all spalled and unsound concrete from the patch area.

If reinforcing steel is exposed, follow ACI standards. If reinforcing steel must be replaced, follow ACI standards for the removal and installation of reinforcing steel.

For overlaying applications, remove all laitance, grease, dust, curing compounds and other bond inhibiting materials.

This must be done through mechanical means (shot blasting or scarifying). Dampen surface with water to prevent premature drying of the mixed trowel mortar. The use of a primer is usually not necessary. However, when porous concrete is encountered, the use of PRO LATEX MORTAR is recommended. This use of a slurry coat is necessary for overlaying applications but not for patching applications.

MIXING:

PRO TROWEL 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 mixer. By either means, always add the PRO TROWEL MORTAR to the liquid. Pour 1 gallon of PRO LATEX BINDER into a mixing container. Mix to a uniform consistency. Depending on the consistency desired an additional 4-oz. Of water may be added. Mix for no more than 2 minutes.

WORKING TIME:

PRO TROWEL MORTAR has a working time of 20-30 minutes at 70° F (21° C) PRO TROWEL MORTAR may finish 25-35 minutes after the material has been placed. The working and finishing times are dependent on ambient and surface conditions.

APPLICATION:

The surface of the concrete should be saturated surface dry (SSD) at the time of the application. For overlaying applications, a slurry coat of the mortar must be scrubbed into the surface of the concrete. The slurry coat **MUST NOT** be allowed to harden prior to the placement of the PRO TROWEL MORTAR. A slurry coat is not warranted for patching applications. At this point, the procedure is the same for either application. Place the PRO TROWEL MORTAR into the properly prepared area. Bring the mortar above the desired level, vibrate and then screed off any excess material. Allow the mortar to stiffen, 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 TROWEL 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. PRO VOC CONCRETE CURE AND SEAL, can be used. Overlaying applications must be cured by using polyethylene sheeting.

PACKGING:

PRO TROWEL MORTAR is packaged in a 60 lb. bag
PRO LATEX BINDER is supplied in 1 gallon containers.

STORAGE CONDITIONS:

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

COLOR:

When mixed, PRO TROWEL MORTAR is concrete gray.

SHELF LIFE:

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

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. In case of eye contact, flush with water. Wash skin with soap and water if contact occurs. Consult a Physician
5. Use only with adequate ventilation

KEEP OUT OF REACH OF CHILDREN

TECHNICAL DATA:

Compressive Strength (ASTM C109):

1 day	2,500 psi
7 day	6,000 psi
29 days	7,500 psi

Tensile Strength (ASTM C190)

1 day	425 psi
7 day	800 psi
28 days	1,325 psi

Flexural Strength (ASTM C 348)

1 day	800 psi
7 day	1,200 psi
28 days	1,700 psi

Modulus of Elasticity (ASTM C 469)

28 days	2.9 X 10 ⁶ N/MM ² psi
---------	---

Bond Strength (ASTM C 882):

28 days	2,000 psi
---------	-----------

Drying Shrinkage (ASTM C 157):

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

Freeze/Thaw Resistance (ASTM C 666) Method A

50 cycles	Durability 99.2%
-----------	------------------

Water Vapor Permeance (ASTM E 96)

28 days	17 perms
---------	----------

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.