



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

7/01-1

PRO FLOWABLE MORTAR

POLYMER MODIFIED, FAST SETTING, SELF CURING

DESCRIPTION:

PRO FLOWABLE MORTAR is a polymer modified, two component flowable, cementitious, patching and resurfacing mortar. **PRO FLOWABLE MORTAR** is formulated specifically for patching concrete on horizontal and formed surfaces.

USES AND APPLICATIONS:

- Resurfacing un-level or damaged concrete
- Grouting hard to reach areas
- 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.
9. Pre-proportioned units to insure consistency and facilitate mixing

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 FLOWABLE 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).

PRIMING:

The use of a primer is usually not necessary. However, when porous concrete is encountered, the use of PRO LATEX BINDER is recommended. The use of a slurry coat is necessary for overlaying applications but not for patching applications.

MIXING:

PRO FLOWABLE 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 FLOWABLE 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 8 ozs. of water may be added. Mix for no more than 5 minutes.

WORKING TIME:

PRO FLOWABLE MORTAR has a working time of 20-30 minutes at 70° F (21° C) PRO FLOWABLE 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 FLOWABLE MORTAR. A slurry coat is not warranted for patching applications. At this point, the procedure is the same for either application. Place the PRO FLOWABLE 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, flowable sponge float or wood float. For a rough finish, use a broom or a tine.

When the depth of the placement exceeds 1 ½" or when a large area needs to be placed, the use of coarse aggregate is recommended. The aggregate should be ¼-3/8" in size, clean, well graded and damp (SSD). A maximum of 40 pounds of aggregate can be added per unit of PRO FLOWABLE MORTAR. The mortar must be mixed first and then the aggregate can be added. Mix for a maximum of one minute. The addition of the aggregate may require the use of additional PRO LATEX BINDER.

YIELD:

PRO FLOWABLE MORTAR will yield approximately 0.5 ft³. per unit. When extended with coarse aggregate it will yield approximately 0.75 ft³ 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. Overlaying applications must be cured by using polyethylene sheeting. Curing is dependent on the ambient temperature and humidity.

PACKGING:

PRO FLOWABLE MORTAR is packaged in a 60 lb. bags PRO LATEX BINDER is supplied in 1 gallon containers.

STORAGE CONDITIONS:

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

SHELF LIFE:

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

COLOR:

When mixed, PRO FLOWABLE 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. 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	2,300 psi
7 day	5,200 psi
29 days	6,500 psi

Tensile Strength (ASTM C190)

1 day	500 psi
7 day	700 psi
28 days	950 psi

Flexural Strength (ASTM C 348)

1 day	450 psi
7 day	1,050 psi
28 days	1,400 psi

Bond Strength (ASTM C 882):

28 days	2,200 psi
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Drying Shrinkage (ASTM C 157):

28 days	0.09%
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GENERAL INFORMATION:

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

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WARRANTY

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