



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

8/01-1

PRO N.B.P. NO BETTER PATCH

DESCRIPTION:

PRO N.B.P. is a fast setting, polymer modified, cementitious patching mortar designed to repair vertical and overhead concrete and masonry surfaces.

PRO N.B.P. restores disintegrated concrete or masonry surfaces as well as repairing damaged concrete pile, curbs, steps and other pre-cast concrete material.

PRO N.B.P. can be used on all vertical or overhead surfaces and can be used for spalling repairs at reinforcing bars.

ADVANTAGES:

- Fast-setting and high early strengths
- Superior bond and adhesion properties
- Excellent freeze/thaw resistance
- Compatible with the coefficient of thermal expansion of concrete
- Contains no gypsum or chloride compounds

SURFACE PREPARATION:

All surfaces must be clean and sound before placing PRO N.B.P. Remove all spalling or unsound concrete from the patch area by use of chisel or air hammer. Any bond inhibitors such as oil or grease should be removed in a like manner. It is recommended to saw cut all edges to accommodate repairs. If the reinforcing steel is beyond repair, follow the ACI standards for the removal and installation of damaged reinforcing steel. Dampen the area to be patched with clean water. The substrate should be saturated surface dry (SSD). Place material and finish to match surrounding surfaces. No priming is required.

MIXING:

PRO N.B.P. maybe mixed by manual or mechanical means.

MANUAL MIXING: Mix in original container or use various size buckets and a margin trowel. Remove the cement from the pail. .

MECHANICAL MIXING: Mix in a 5-gallon pail using a heavy duty slow speed drill (400-600 rpm) with a mixing paddle. Pour water into the mixing container and then add the PRO N.B.P. Mix until a uniform, no slump consistency is obtained. Do not over mix! 2 minutes is all that is required. Only mix that which can be placed in 8-13 minutes.

NOTE: PRO LATEX BINDER or PRO CONCRETE ADHESIVE may be used as the mixing liquid if enhanced properties are required.

POT LIFE:

PRO N.B.P. has a pot life of 8 to 13 minutes at 70°F (21° C). Cold water 40° F (4° C) will retard the set time and hot water 90 °F (32° C) will accelerate the set time.

CURING:

PRO N.B.P. will reach its final set in 10 to 15 minutes at 70° F (21° C). Under normal conditions, no special curing is required. However, under high temperature, low humidity or strong winds, the patch must be protected from rapid drying. Use a liquid curing compound, wet burlap or polyethylene sheeting is recommended.

YIELD:

PRO N.B.P. will yield approximately 0.4 cu.ft. (0.01 cu.m) per 50 lb. Pail.

RECOMMENDATIONS:

1. Apply only to a clean, sound properly prepared substrate
2. Minimum ambient and surface temperatures should be 45° F (7° C) at the time of application and not drop below that level for a minimum of 4 hours.
3. Use clean water when mixing PRO N.B.P.
4. Do not apply to a frozen surface
5. Do not re-temper
6. Do not mix more material than can be placed in 13 minutes

APPLICATION:

The surface should be damp (SSD) and the PRO PATCHING CEMENT should be placed immediately after mixing. The PRO N.B.P. should be forced into the area to be patched to insure a good mechanical bond. Next, continue to fill the patch area to above the level of the existing concrete. The mortar should be allowed to stiffen slightly and then shaved to flush with the surrounding substrate. Finish work maybe done with a steel, wood or sponge float.

NOTE: The maximum depth of a lift of PRO N.B.P. must not exceed 1" (2.5cm). When repair work exceeds 1" (2.5cm) the work should be done 1" at a time. After placing the first lift, score the surface to provide sufficient mechanical grab for the next lift. Allow sufficient time for the previously placed lift to set (20 minutes) and then continue with additional lift. Repeat repair procedure until work is flush with the substrate.

TECHNICAL DATA:

PRO LATEX BINDER was used as the mixing agent to compile all data on this product. Water mix results are approximately one third less then posted.

Compressive Strength (ASTM C 109)

1 day	4,000 psi
7 days	6,500 psi
28 days	8,000 psi

Tensile Strength (ASTM C 190)

1 day	300 psi
7 days	500 psi
28 days	600 psi

Flexural Strength (ASTM C 348)

1 day	600 psi
7 days	1,000 psi
28 days	1,300 psi

Bond Strength (ASTM C 882)

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

Drying Shrinkage (ASTM C 157)

28 days	0.10%
---------	-------

Modulus of Elasticity (ASTM C 469)

28 days	5.2 X 10 ³ psi
---------	---------------------------

Coefficient of Thermal Expansion (ASTM C 531)

28 days	4.5 X 10 ³ /° F
---------	----------------------------

Freeze/Thaw Resistance (ASTM C 666) 300 Cycles

Method A	Durability Factor 90
----------	----------------------

Water Vapor Permeance (ASM E96)

28 days	14 perms
---------	----------

Specifications Compliance

(ASTM C 928)	Rapid Hardening
--------------	-----------------

PACKAGING:

PRO N.B.P. is available in 50 lb. (23kg) multi-ply bags or a 60 lb. (27kg) pail

PRECAUTIONS:

- Dispose of waste materials in accordance with Federal, State and local regulations.
- The use of a NIOSH/MSHA approved respirator, safety goggles and impervious gloves are recommended.
- **CAUTION:** Contains Portland Cement, which is highly caustic.
- In case of eye contact, flush with water. Wash skin with soap and water if contact occurs. Consult a Physician
- Use only with adequate ventilation
- For industrial use only
-

KEEP OUT OF REACH OF CHILDREN

STORAGE CONDITIONS:

Store PRO N.B.P. at or above 45° F (7° C) in a dry area. Avoid excessive heat or humidity.

COLOR:

Concrete gray when cured.

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: ckuffman@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.