



Manufacturers of Professional Grade Cement & Construction Products Since 1967

POR-ROK PRODUCTS ARE MANUFACTURED AND DISTRIBUTED BY CGM, INC

SPR-101-REV 3

SUPER POR-ROK®

EXTERIOR ANCHORING CEMENT—NON SHRINK GROUT

Sets in 20 minutes – Expands as it sets – Strong as Concrete in Hours—Indoor or Outdoor

DESCRIPTION:

For more than 50 years, **POR-ROK** has been the standard of performance for grouting anchor bolts, setting rebar and anchoring railings into concrete for interior applications.

After years of in depth experience with non-shrinking grouts, over 100 million pounds of practical applications and over ten years of research and development, **SUPER POR-ROK** has been introduced as a companion product to **POR-ROK**. Ideal for all exterior and interior project applications, **SUPER POR-ROK** is packaged in 50 lb handy plastic pails.

SUPER POR-ROK cement consists of a quality controlled hydraulic cement in a ready to use formulation which, when mixed with specified water, will provide a pourable cementitious mixture.

The basic use of **SUPER POR-ROK** is to produce a quick setting, pourable, non-metallic, non-shrink grout.

USES & APPLICATIONS:

- Ideal for patching roads or sidewalks
- Well Suited for applications over 7,000 psi strength
- Grouting Machinery

ADVANTAGES:

1. Can be used inside or outside
2. Ready to use
3. Sets Fast
4. Low Downtime
5. Outstanding Flexural Strength
6. Develops Bond Strength Stronger than Rebar
7. Withstands Water Erosion
8. Permanent
9. Good Dimensional Stability
10. Economical

TECHNICAL DATA:

BOND STRENGTH DATA

	<u>Diameter of Hole (Inches)</u>	<u>Depth of Hole (Inches)</u>	<u>Bond Strength ibF (ASTM C-900)</u>
1/2" A325 Bolts	1 1/2"	6	28,900 (Bolt Broke)
1" A325 Bolts	2 1/4"	10	73,000
#4 Re-bar Rod (deformed)	1	8	26,500 (Rod Fractured)
#8 Re-bar Rod (deformed)	2	16	75,000 (Rod Fractured)

COMPRESSIVE STRENGTH:

Super Por-Rok was poured into 2" cube molds. Readings taken after final set on Innstrom Machine, 60,000 lb. Capacity in accordance with ASTM specifications. Material was mixed with 7 quarts. of water per 100 lbs. of Super Por-Rok

<u>AGE</u>	<u>Compressive Strength (psi) (ASTM C-109)</u>
3 hours	2100
1 day	4500
3 days	4900
7 days	5600
28 days	7200

SET TIME:

AT 75° F, initial set 20 minutes, final set 60 minutes. Vicat Test ASTM C-807

NOTE: Temperatures will effect set time. Colder temperatures will cause slower set times, hotter temperatures will cause faster sets.

EXPANSION:

Non-shrink controlled expansion (of 1% + of Por-Rok Cement)

WEIGHT PER CUBIC FOOT:

Weight after final set will not exceed 129 lb/ft³ based on 115 lbs of Super Por-Rok mixed with 1 3/4 gallons of water.

FLEXURAL STRENGTH: 1260 psi

TENSILE STRENGTH: 450 psi

DIRECTIONS:

HOW TO MIX THE CEMENT

Always use a clean container. Never add sand, gravel or other foreign substances to SUPER POR-ROK. They weaken the cement and affect setting. Never use more water than prescribed.

CONSISTENCY:

Super Por-Rok may be used in either flowable consistency for pouring, or putty consistency for application with putty knife, spatula or trowel. Either consistency produces high strength.

Flowable (pourable) Consistency:

For best results, measure accurately. The correct amount of water is as follows:

- 2.3 oz per lb
- 11.5 oz for 5 lb.
- 115 oz for 50 lbs
- 7 quarts for 100 lbs.

Measure the amount of Super Por-Rok and water to be mixed. Add the measured amount of water to the appropriate amount of cement and mix until the desired consistency is achieved. (NEVER USE MORE WATER THAN PRESCRIBED. This will reduce the ultimate strength, increase the possibility of volume instability and may cause the product to become soft and less durable.)

Plastic Consistency:

For best results, measure accurately. The correct amount of water for plastic consistency is 1.5 oz per lb.

Add Super Por-Rok to water to make the cement form dry lumps. Keep mixing for 1-1 ½ minutes. As the powder absorbs the water Super Por-Rok will develop the proper consistency.

HOW TO ANCHOR BOLTS, RAILINGS, POSTS AND RODS IN CONCRETE, BRICK OR STONE

NOTE: ALUMINUM MUST BE COATED OR TREATED WITH A GOOD SEALER OR PAINT PRIOR TO ANCHORING.

- A. Drill the hole (never less than 2" deep) **BLOW OUT ALL DUST AND LOOSE PARTICLES.** If air line with oil filter is not available, tire pump, battery filler or bulb syringe is handy for this purpose.
- B. Fill the hole with water. Scrub the sides and bottom of the hole with a stiff wire brush such as a bottlebrush. **THIS IS IMPORTANT**
- C. Remove excess water with rag or other absorbent materials. **LEAVE THE HOLE CLEAN AND UNIFORMLY DAMP.**
- D. Mix the Super Por-Rok cement in a clean container. (See "How to Mix the cement").
- E. For anchoring machinery in concrete use flowable consistency. (See "How to mix the Cement"). Use washers on headed bolts to be grouted. Pour the cement slowly around the entire bolt to eliminate air voids.
- F. For anchoring in vertical walls, use the plastic consistency. (See "How to mix the Cement"). Fill the hole with the plastic cement first, and then tamp the bolt or rod with a twisting motion into place. If the material becomes too fluid during the tamping process and sags out of place, let it stand for a few minutes and it will stiffen. Smooth out the surface around the bolt with spatula or trowel.
- G. Let the cement harden for at least 60 minutes. For heavy equipment, allow 4 hours prior to use or loading.

HOW TO GROUT MACHINERY:

PREPARATION: The concrete surface must be clean and sound. Scaling, unsound concrete should be chipped or scarified to provide a firm base and uniform load transfer. Oily, greasy surfaces should be cleaned with solvent or grease remover and flushed thoroughly with clean water.

The concrete foundation should be damp with no freestanding water at the time of application of Super Por-Rok. Surface water must be removed prior to grouting by blowing with compressed air removing with absorbent materials.

APPLICATION: When mixed to a flowable consistency, Super Por-Rok flows easily. It is necessary to caulk or seal all openings in forms to prevent loss of material. Forms must be sealed at edges as well prior to mixing material. Once the work is begun, material should be mixed and placed continuously until the entire void is filled with grout. Grout that has stiffened may block or impede the flow and form voids. It is suggested that a head box is used to provide hydraulic flow and that grouting be done from only one direction across the entire base plate to minimize entrapped air and void formations. Metal strapping or chains may be used to assist the movement of the grout or larger base plates. Reinforcing rods or wire mesh may be inserted into freshly placed grout.

HOW TO PATCH HOLES AND CRACKS IN CONCRETE FLOORS, MASONRY WALLS, ROADS AND SIDEWALKS

IMPORTANT: Minimum depth for patching using SUPER POR-ROK is 1 inch. Do not attempt to featheredge patches done with SUPER POR-ROK

- A. Concrete surfaces should be clean and all broken and deteriorated concrete removed. Edges should be saw cut to a 90° edge to provide for proper edge bonding. Back cutting can be done with a chisel and hammer.
- B. The hole must be thoroughly clean and damp prior to application with all freestanding water removed. All dust and residual concrete chips and particles must be removed. Applications to dry holes or holes with freestanding water may result in failure of the patch.
- C. Mix the SUPER POR-ROK in a clean container and place a small amount of material into the surface to provide an initial bond coat of SUPER POR-ROK. Do not allow this material to totally dry before placing the balance of the material into the area and leveled with a straight board or trowel. NOTE: Do not mix more SUPER POR-ROK than can be applied in 10 minutes. Do not use material which has reached an initial set in the bucket or mixer.
- D. SUPER PRO-ROK will thicken in about 10 minutes and the surface should be troweled to the desired finish. Ambient temperature and wind may change this time and it is the responsibility of the applicator to determine the proper finishing time.
- E. After approximately 60 minutes, sprinkle the patched surface with water and foot traffic may be applied. Heavy trucking or forklift trucks should wait a minimum of 4 hours. **IMPORTANT:** SUPER POR-ROK must be cured in accordance with good concrete practices. Use a high quality curing compound meeting ASTM C-1315.

WARNING: INJURIOUS TO EYES

Causes skin irritation. Contains Portland Cement. Avoid eye contact or prolonged contact with the skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes, consult a physician immediately.

KEEP OUT OF REACH OF CHILDREN

GENERAL INFORMATION:

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

Voice: 215-638-4400
Fax: 215-638-7949
Toll Free: 800-523-6570
E-mail: info@cgmceiment.com
On the Web: www.cgmbuildingproducts.com

SHELF LIFE:

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

PACKAGING:

SUPER POR-ROK is packaged in a 50 lb. Pail and 5 lb tubs-8/case

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.

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