



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

8/01-1

# PERMA POOL PATCH

## FAST SETTING, HIGH STRENGTH MORTAR

### DESCRIPTION:

**PERMA POOL PATCH** is a fast setting, high strength patching and repair mortar that may be used in or out of water.

**PERMA POOL PATCH** is suitable for any emergency or permanent repair.

### USES AND APPLICATIONS:

- Under water repair in a swimming pool or ponds
- Repair to concrete holding tanks, precast concrete or concrete piping.
- Any patching where high early strength and fast set times are required.

### ADVANTAGES:

- Make repairs to pool without draining the water
- Excellent impact resistance
- Stops the loss of water from a pool
- Excellent bond strength and adhesion properties
- Requires water only for mixing
- Permanent repair. No additional products needed
- May be painted 1 hour after application

### SPECIAL NOTES:

- Apply to a clean, sound and properly prepared substrate.
- Minimum ambient surface temperature should be 50° F (10° C) and rising at the time of application
- Do not re-temper or add any admixture
- Do not apply to frozen surfaces
- Not intended for use as an overlay

### SURFACE PREPARATION:

**UNDERWATER:** Wire brush area of repair to remove loose or dead cement. When possible, undercut the repair area to insure the best results. Mix only small quantities of PERMA POOL PATCH.

**OUT OF WATER:** Undercut the substrate and open the crack or hole to a minimum depth and width of 1" (2.5 cm). Wire brush and then flush away all loose material. Remove all oil, grease, dirt and other contaminants to expose clean sound concrete. All traces of oil, dirt or grease must be removed by scrubbing with an industrial detergent. After scrubbing, flush thoroughly with clean water. The substrate surface must be thoroughly wet before applying PERMA POOL PATCH.

### COLOR:

**PERMA POOL PATCH** is available in white only but cement colorants may be added.

### MIXING:

Mix approximately 3 to 4 parts of PERMA POOL PATCH to 1 part of water and mix for 1 minute until a putty or trowel consistency is achieved. PERMA POOL PATCH may be 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. Then add water to the pail and then add the PERMA POOL PATCH. Mix until a putty or trowel consistency is achieved.

**MECHANICAL MIXING:** Mix in a 5 gallon pail using a heavy duty slow speed drill (400-9600 rpm) with a mixing paddle. Pour water into the mixing container and then add the PERMA POOL PATCH. Mix until a uniform, no slump consistency is obtained, 2 minutes, DO NOT OVER MIX. Do not mix more material than can be placed in 8 minutes.

### POT LIFE:

**PERMA POOL PATCH** has a pot life of 10-15 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:

The curing time of PERMA POOL PATCH is approximately 30 minutes at 70° F (21° C).

### YIELD:

**PERMA POOL PATCH** will yield approximately 0.4 cu.ft. (0.01 cu.m) per 50 lb. pail.

### PRIMING:

The use of a primer before the application of PERMA POOL PATCH is not necessary.

### APPLICATION:

**UNDERWATER:** Mixing in a small pail, take PERMA POOL PATCH in gloved hand and hold until material starts to firm up. Then, immediately press into hole or crack. Hold for 1 minute, longer if needed, until PERMA POOL PATCH has set up. Repeat procedure until crack has been filled. PERMA POOL PATCH may be shaved flush with the side of the pool once initial set has occurred.

**OUT OF WATER:** Mix sufficient material to complete repair, but not more than can be placed in 8 minutes. Place by trowel into properly prepared surface and shape to contours of repair area. Areas covered with PERMA POOL PATCH can be covered with a cementitious coating immediately after the application. Paint may be applied 1 hour after application.

**PACKAGING:**

SIZE	STOCK NO.	UNITS PER CARTON	WT. PER CARTON
3lb. Pail	300PL	12	38lbs.
10lb. Pail	10PL	4	43lbs.
50lb. Pail	50PL	1	53lbs.

**STORAGE CONDITIONS:**

Store PERMA POOL PATCH at or above 45° F (7° C) in a dry area. Avoid excessive heat or humidity.

**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: [cbrunner@cgmcement.com](mailto:cbrunner@cgmcement.com)  
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On the web @: [www.cgmbuildingproducts.com](http://www.cgmbuildingproducts.com)

**TECHNICAL DATA:**

**Compressive Strength (ASTM C109):**

1 day 1,400 psi  
 7 days 3,500 psi  
 28 days 6,400 psi

**Tensile Strength (ASTM C 190):**

1 day 200 psi  
 7 days 400 psi  
 28 days 500 psi

**Flexural Strength (ASTM C 348):**

1 day 400 psi  
 7 day 700 psi  
 28 day 900 psi

**Bond Strength (ASTM C 882):**

28 days 800 psi

**Drying Shrinkage (ASTM C 157):**

28 days 0.10%

**Water Vapor Permanence (ASTM E96)**

28 days 14 perms

**KEEP OUT OF REACH OF CHILDREN**

**PRECAUTIONS:**

1. Dispose of waste materials in accordance with Federal, State and local regulations.
  2. The use of a dust mask, safety goggles and rubber gloves are recommended.
  3. **CAUTION:** Contains Portland Cement which is highly caustic.
  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
- Use only with adequate ventilation

**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.