



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

8/01-2

PERMA ANCHOR TITE

POURABLE, QUICK SETTING, NON-SHRINK

DESCRIPTION:

PERMA ANCHOR TITE is a pourable, quick-setting, non-shrink, anchoring grout. The expanding characteristics of PERMA ANCHOR TITE forms a tight grip on both the fixture and the surrounding concrete. PERMA ANCHOR TITE will set in 15 minutes at 70° F (21°C).

USES AND APPLICATION:

PERMA ANCHOR TITE may be used for anchoring:

- Bolts, screws, hooks, pins and reinforcing rods
- Setting posts railings, signs, parking meters, appliances, small machinery and conveyors

BENEFITS:

- Non Shrink
- High early strengths
- Pourable
- Quick setting
- May be used for interior and exterior¹ applications
- Does not contain iron, aluminum, calcium chloride or agents that promote rust
- No primer required for any application

SPECIAL NOTES:

1. Apply only to a clean, sound and properly prepared substrate.
2. Application and curing times are dependent upon ambient conditions.
3. Minimum ambient and surface temperatures should be 45° F (7° C) at the time of application.
4. Under cut whenever possible
5. Always dampen the surface before application

SPECIFICATIONS:

PERMA ANCHOR TITE meets the requirements of ASTM 1107.

POT LIFE:

PERMA ANCHOR TITE has a working time of approximately 7-10 minutes at 70° F (21° C).

¹ When used for exterior applications, this grout must be protected from exposure to standing and running water. A waterproof coating conforming to ASTM C1315 is recommended a minimum of 7 days after placement.

MIXING:

HORIZONTAL APPLICATIONS: Mix the PERMA ANCHOR TITE with potable water until a pourable consistency is achieved. Do not over water as this will weaken the material. . Mix 1 part water to 4 parts PERMA ANCHOR TITE.

VERTICAL APPLICATIONS: Reduce the amount of water used in order to obtain a putty like consistency

YIELD:

PERMA ANCHOR TITE will yield approximately 0.5 ft³ per 50 lb. pail or 14 in³ per 1 lb. See table for placement information.

SURFACE PREPARATION:

The application area should be clean and sound. Drill a hole into the concrete that will allow enough room for the fixture plus a minimum of one inch clearance around the entire fixture. When possible, undercut and roughen the walls \of the hole to insure a strong bond. Blow or vacuum all loose particles from the hole and then dampen before placing the fixture and the PERMA ANCHOR TITE.

PERMA ANCHOR TITE may be used to anchor square posts or railings in round holes in concrete provided the following conditions are met:

1. Depth of the hole shall be equal to or greater than the diameter of the hole. Minimum hole depth is 3".
2. Diameter of the hole should be greater than the diagonal or cross section dimension. If a square hollow post is being grouted and is 2" square, the cross section is approximately 3". The hold size should be 3 ¼ " in diameter and approximately 3 ½" deep.
3. Holes should be clean and presoaked with clean water prior to grouting. Clean or scour the sidewall of the holes with a wire bottlebrush to remove any ceramic glazing. All excess or free water shall be removed from the hold prior to grouting.
4. Consult CGM Inc. for details.

PERMA ANCHOR TITE has been used for grouting round anchors such as anchor bolts, all thread and threaded reinforcing bar in concrete using the following guidelines:

1. Hole diameter should be the size of the bolt or bar plus 1" clearance all around.
2. Depth of hole in the concrete should be the hole diameter times eight.
3. Smooth round bar stock shall be threaded on one end and a nut and washer must be grouted in the hole.

APPLICATION:

PERMA ANCHOR TITE must be placed immediately after mixing. Pour a small amount of PERMA ANCHOR TITE into the hole and then work the fixture up and down to eliminate any air pockets. Continue to pour the material into the hole until it is filled. The fixture should be supported for 20 minutes. At this time the supports may be removed as the PERMA ANCHOR TITE will have reached its initial set. Do not disturb the fixture during the hardening.

CURING:

The curing time of PERMA ANCHOR TITE is 1 hour at 70° F (21° C).

TECHNICAL DATA:

Compressive Strength (ASTM C 109) @ 70° F (21° C)

1 hour	3,000 psi
1 day	3,800 psi
7 days	5,200 psi
28 days	5,800 psi

Expansion

CRD C 621-83	+0.03%
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Pullout Strength

ASTM C 900 Modified	>10,000lbs.
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TABLE FOR ESTIMATING QUANTITY OF MATERIALS NEEDED FOR ANCHORING

For the best performance, all bolts must have a washer. Washers must be large enough to fit the diameter of the opening. The washer must be free to rest against the head of the bolt when inserted at the bottom of the opening. It is better to enlarge the opening than reduce the size of the washer or bolt.

Diameter of bolt to be fastened	Diameter of Hole	Depth of Hole	Quantity needed for anchoring
3/8"	1 1/4"	3"	3 oz.
1/2"	1 3/4"	4"	8 oz.
3/4"	2 1/2"	6"	1 1/2 lb
1"	3 1/2"	8"	4 lbs.
1 1/4"	4 1/4"	12"	8 lbs.

SHELF LIFE:

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

COLOR:

Cream to tan when cured.

PACKAGING:

PERMA ANCHOR TITE is supplied in a 50 lb pail.

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:	info@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.

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