



# TECHNICAL DATA SHEET

## RAPID ROCK® Fast Setting Pourable Grout

03600

GROUT  
CONCRETE

TAMMS INDUSTRIES  
MAY 2005 (Replaces 11/03)

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1. **DESCRIPTION:** RAPID ROCK is a pourable, fast setting, high strength cement compound for anchoring and grouting.

### FEATURES AND BENEFITS

- *Mixes in 1 to 3 minutes*
- *Sets in approximately 10 minutes*
- *Over 5,000 psi in one hour*
- *8,000 psi at final cure*
- *No shrinkage*
- *Controlled expansion*

### USES

- *Interior or exterior*
- *Above and below grade*
- *Useful for anchoring*

*Bolts*  
*Reinforcing rods*  
*Hooks*  
*Posts*  
*Railings*  
*Parking meters*  
*Signs*  
*Motors*

only potable water for mixing. RAPID ROCK contains no metals which might corrode or chemicals which might initiate corrosion or otherwise damage iron, aluminum or other metals.

3. **SURFACE PREPARATION:** Surfaces must be structurally sound, clean and free of all contaminants. New concrete and masonry must be cured 28 days. Use only potable water for cleaning and prewetting. **Anchoring:** Drill the hole 1 inch deep for each 1/8 inch diameter of the bolt, with a minimum hole depth of 2 inches. Drill hole diameter slightly larger than washer diameter to allow the washer to rest firmly on the rod or bolt head. The hole should be wider at the bottom than at the top. Wobble the drill in the hole to mushroom the bottom and ensure the grout will flow around bolt head and washer. Blow or flush out dust and debris, fill the hole with water and scrub the sides and bottom with a bottle brush or swab. Flush thoroughly with clean water and absorb the remaining water with a clean cloth. Follow immediately with the application of RAPID ROCK.

3.1 **Grouting:** RAPID ROCK must adhere to the structural surface. Abrade smooth and dense concrete to ensure maximum bond. Clean concrete thoroughly, rinse and absorb remaining water. Seal edges of forms to prevent leakage of RAPID ROCK. Pre-wet surfaces with potable water before installing RAPID ROCK.

4. **MIXING INSTRUCTIONS:** The mix ratio of RAPID ROCK is approximately 1.25 pints per 5 pounds of RAPID ROCK, or 6 quarts of potable water per 50 pound bag. Mix RAPID ROCK in a clean container. For larger quantities use a self-emptying rotary mixer with rubber tipped blades. Measure all quantities accurately, and mix to form a thick batter. The mixture, when allowed to stand, will become similar to a thick paste and barely fluid enough to pour. **DO NOT ADD EXTRA WATER.** Soupy mixes will weaken RAPID ROCK. Vertical surfaces require a stiffer putter-like consistency for anchoring or patching. RAPID ROCK will set in approximately 10 ± 2 minutes. When temperatures are near freezing, store RAPID ROCK in a warm area, mix with hot water and apply material within five to ten minutes after mixing. Warm anchor bolt hole to remove frost before anchoring.

MATERIAL PROPERTIES AT 75°F			
<b>ASTM C109</b>			
Compressive Strength, psi	1 hr	5160	
	24 hr	6938	
	7 days	8169	
	28 days	8496	
<b>ASTM C157</b>			
Expansion, % of hardened state		<b>PLASTIC</b>	<b>FLOWABLE</b>
	3 day	0.169	0.089
	7 day	0.198	0.146
	28 day	0.213	0.158
<b>CRD-C 621</b>			
Pullout Load, foot lbs	36,000		
a 3/4" hex machine bolt anchored into a 2" diameter hole, 6" deep			
Exceeds Corps of Engineers Specification CRD-C 621.			

2. **COMPOSITION AND MATERIAL:** RAPID ROCK is a cement compound specially modified to control expansion, and initial and final set times. It requires

5. **APPLICATION TECHNIQUES:** Pre-wet hole or surface with potable water and remove excess water from hole before RAPID ROCK application. **Anchoring:** Insert bolt and washer into hole, pour or pack the hole with RAPID ROCK, and finish flush with the surrounding surface. Exterior applications must be covered with a high quality waterproof paint or sealer after RAPID ROCK has cured. **Grouting:** Forms must be liquid tight and allow rapid and continuous placement of RAPID ROCK.
6. **COVERAGE:** One 50 lb (22.68 kg) bag yields approximately 0.5 cu ft (0.014 cu.m).
7. **CLEAN UP INSTRUCTIONS:** Clean application tools and mixing equipment with water immediately following use.
8. **CAUTIONS:** Do not retemper. Do not add antifreeze solutions to RAPID ROCK. Use potable water only. Do not add sand or other foreign material to RAPID ROCK. Do not mix in a rotating barrel type mixer. Mix with hot water when the temperature is near freezing. RAPID ROCK contains a gypsum cement. For exterior use, a waterproofing sealer must be applied after RAPID ROCK has cured.
9. **PACKAGING:** 5 and 10 pound jars, 20 and 50 pound pails and 50 lb. (22.7 kg) DOT approved polylined bags. **Storage:** Keep dry in protected storage. **Shelf Life:** One year in protected storage. **Freight Class:** Class 55.
10. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** Product is alkaline on contact with water. Do not breathe dust. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. **DO NOT RUB EYES.** Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation.
11. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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