

# MORTAR-AnchorGrout

## Fast-setting anchoring cement for concrete

### CSI Div. 03

03 62 13 Maintenance of Concrete

### LEED Points

MR Credit 5.1, Regional Materials.....Up to 2 Points  
 IEQ Credit 4.2, Low-Emitting Materials Paints and Coatings...1 Point  
*Using this AQUAFIN product can help contribute to LEED certification of projects in the categories shown above.*

### Product Description:

MORTAR-AnchorGrout is a cement-based, anchoring grout designed for use where high initial strengths are desired. Its formulation is designed for fast anchoring of railings, bolts and posts in concrete substrates.

### Typical Applications:

- Railings
- Posts
- Anchor bolts
- Seating bolts

### Advantages:

- High Strength
- Requires only the addition of water
- Pourable consistency
- Fast setting
- Not effected by wet environments
- Does not contain gypsum

### Substrate Preparation:

- Concrete must be sound fully cured, hardened and of load bearing capacity.
- Drill holes a minimum of 3 times the diameter of the bolt or post. Holes must be large enough to allow material to flow between the anchor bolt and the wall of the hole.
- Hole depth should be 2 - 4 times the diameter of the embedded anchor/post (minimum hole depth 2").
- For added strength, undercut the base of the hole by tilting the drill and working back and forth.
- Holes must be free from potential bond breakers such as dirt and dust. Blow out holes with oil free compressed air immediately before placement.
- Wet the hole to an SSD condition but do not allow water to pond in the bottom of hole. Vacuum any excess water from the hole.

### Mixing:

- For best results, pre-condition MORTAR-AnchorGrout to 70°F ±5° (21°C ±3°) before mixing.
- Use clean potable water to mix MORTAR-AnchorGrout.
- Mixing ratio: 4.9-5.15 qts. (4.6 - 4.9 L):50 lbs. (approx. 3.14 - 3.3 fl. oz./1 lb)
- For best results, mechanically mix at slow speed with a 3/4" drill and "eggbeater" style mixing paddle for 3 minutes.

Technical Properties:		
Physical state	Powder	
Color	Gray	
Mix ratio (water:powder)	4.9-5.15 qts. (4.6-4.9 L):50 lbs. powder	
Application temp. range	40°F to 90°F (4°C to 32°C)	
Working time	10 - 12 minutes	
<b>Physical Properties:</b> The values stated are applicable with ambient temperatures of 73°F (23°C) and 50% relative air humidity. Higher temperatures shorten the setting times and colder temperatures retard setting times.		
Compressive strength (ASTM C109)	1 hour	1,700 psi (10.3 MPa)
	1 day	5,000 psi (34.5 MPa)
	7 days	7,000 psi (48.3 MPa)
	28 days	7,500 psi (51.7 MPa)
<b>Approximate yield per 50 lb. pail:</b> ~0.42 ft <sup>3</sup>		
<b>Storage/Shelf Life/Packaging</b>		
Cool and dry, 12 months in original sealed packaging	50 lb pail (22.7 kg)	

- Add appropriate amount of potable water into a clean bucket. Gradually add powder while mixing to achieve a lump-free consistency.
- Only mix enough material that can be placed in 10 minutes.
- Place material immediately after mixing.

**DO NOT OVER WATER.** Too much water will cause material to segregate resulting in low strength gain.

### Application:

Read all instructions thoroughly prior to installation.

1. Only proceed with application when the temperatures are between 40°F - 90°F (7°C - 32°C).
2. Place anchor bolts into the hole.
3. Pour a small amount of MORTAR-AnchorGrout into hole and work up and down to eliminate air pockets.
4. Fill the rest of the hole level with the surrounding concrete.
5. Protect from freezing for 24 hours after application.
6. Follow ACI hot weather application guidelines to ensure a successful application.

### Clean-up

Clean all tools and equipment with water prior to the material hardening. Cured material must be removed mechanically.

### Curing

Cure exposed grout by wet curing for 12 hours or apply a curing compound per ASTM C309.

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## Limitations:

- Do not use below 40°F (4°C) or over 90°F (32°C)
- Do not extend with additional aggregate.
- Do not add accelerators, retarders, or any additional admixture.
- Store material at temperatures between 55°F - 90°F (10°C - 32°C)

## Note:

Installer is responsible for proper product application. Site visits by Aquafin personnel or representatives are solely for the purpose of making technical recommendations, not for providing supervision or quality control.

## Safety:

Refer to SDS.

## KEEP OUT OF REACH OF CHILDREN.

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

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