

FASTRAC AQUAGROUT

Non-Shrink Underwater Cement Grout

DESCRIPTION

FasTrac AquaGrout is a high precision, non-shrink, natural aggregate, cementitious grout designed to be mixed and placed for underwater or tidal zone grouting applications. AquaGrout can be placed at a workable consistency to meet the demanding job requirements of underwater grouting.

FEATURES/BENEFITS

- Applications requiring grout to be pumped
- Contains high quality, well graded aggregates for high strength and workability
- Sulfate resistant
- Positive expansion for maximum durability and adhesion
- Extended work time for ease of placement
- Free of bleeding and segregation
- Anti-washout formula available upon request

PHYSICAL PROPERTIES

Yield

Approx. 3 cubic yards per bulk-bag/super-sack and approximately .45 cubic feet per 50-lb bag.

Packaging and yield

- 50 lb bag, 0.45 cu. ft.
- 3,000 lb super sack, 27.0 cu. ft.

Shelf life

12 mos. properly stored

Storage

Store and transport in clean, dry conditions

Application Temperature Range

40°F to 90°F (Hot weather placement procedures recommended above 90°F; Cold weather placement procedures recommended below 50°F)

Initial Set Time (72°F):

2.5 hours

Final Set Time (72°F):

4.5 hours

Shrinkage (%):

None

Flowability (ASTM C230)

130% @ flowable consistency

Flexural Strength (ASTM C78, 28-day)

1,200 psi (flowable)

Tensile Strength (ASTM C496, 28-day)

550 psi (flowable)

Compressive Strength (ASTM C109, psi)

	Plastic	Flowable	Fluid
1 day	5,500	4,500	3,500
3 day	6,000	5,000	4,000
7 day	7,500	6,500	5,500
28 day	10,500	8,700	7,700

Note: The data presented above is representative of testing in controlled laboratory conditions. Results may differ based upon variations in mixing methods and equipment, temperature, application, test method, site and curing conditions. Manufacturer always recommends a mock-up and preconstruction meeting prior to application.

HOW TO APPLY

Surface Preparation (See ICRI guidelines)

Substrate must be clean and sound. All loose material must be removed. Substrates which are permanently immersed should be sand blasted or cleaned with a high-pressure water jet. Non-immersed or intermittently immersed substrates can also be prepared using these techniques. Depending on the circumstances, scabbling or bush hammering may be appropriate. Due to the fluid nature of AquaGrout, all formwork must be grout-tight. This can be achieved using foam rubber sealing strips at the edges.

Mixing

The quantity of water required to achieve a flowable consistency must be accurately measured for each mix. Start with 6 pints per 50 lb. and add additional water to bring the consistency to a fluid, yet cohesive mix. Do not exceed 8.25 pints of water. A mechanically powered grout mixer (mortar mixer) must be used. Ensure that the machine capacity and the number of workers are adequate to enable grouting to be carried out as a continuous operation.

FASTRAC AQUAGROUT

Place the specified amount of water in the mixer. Slowly add the contents of the AquaGrout bag, mixing continuously. When all the contents are added, mix continuously for a minimum of 3 minutes making sure that a smooth, uniform mix is obtained. Pass the mixed grout through a #4 sieve to remove any lumps prior to plac-ing. Important – The need to observe the accurate gauging of wa-ter addition and the stated mixing time should be stressed to all operatives and, wherever possible, included in specifications.

Application

AquaGrout may be placed up to 4" in thickness in one pour when placed above water. When placed under water, the heat sink ef-fect in this environment permits placement thickness up to 7". For thicker sections, up to 10" above water and 20" under water, it is necessary to extend AquaGrout using a clean, rounded and well-graded aggregate. The quantity of aggregate added should not exceed 1 part aggregate to 1 part AquaGrout by weight. For such mixes a concrete mixer must be used. Unrestrained surface areas should be kept to a minimum. Large volumes require a thermal analysis to determine any limitations on pour size.

Place AquaGrout within 20 minutes of mixing to gain full benefit of the expansion process. Continuous grout flow is required and the grout should be poured or pumped through a flexible tube to the lowest point in the form. At the start of the operation the grout flow should be restricted to avoid any water entrapment. The bottom of the tube SHOULD NOT be raised above the level of the grout.

LIMITATIONS

Apply only when the surface and ambient temperature are 45°F-50°F (7°C-10°C) and rising. See Cold Weather Application guidelines, per ACI, for applications in temperatures less than 50°F (10°C). Applications made during temperatures greater than 85°F (29°C) should follow Hot Weather Application guidelines, per ACI.

Do not add more water than specified. Not recommended for placement below 35°F. Do not retemper. Do not vibrate. Do not use any additives including accelerators, water reducers, or air entraining agents. Do not overwater. This can cause bleeding or segregation. Do not add cement, sand or admixtures. Do not mix more product than can be used in twenty minutes.

Refer to safety data sheet prior to use.

Avoid direct contact with skin and eyes. Product contains portland cement. May cause irritation and possibly cement burns. Wash exposed skin area promptly with water. In case of eye contact, flush eyes with large amounts of water and call physician. Do not take internally. Harmful if ingested. Keep product out of reach of children.

CLEAN UP

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

CAUTION

Safety Considerations

Use adequate ventilation.

Use of NIOSH/MSHA approved dust vapor respirator, safety goggles and protective gloves is recommended.

First Aid

EYE CONTACT: Flush immediately with water for at least 15 minutes. Contact physician immediately

RESPIRATORY CONTACT: Remove person to fresh air. If the discomfort persists, breathing difficulty occurs, or if swallowed seek medical attention.

SKIN CONTACT: Remove any contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, seek medical attention.

Limited Warranty Notice

All information provided by Western Material & Design LLC (WMD) concerning WMD products, including but not limited to, any recommendations and advice relating to the application and use of WMD products, is given in good faith based on WMD's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with WMD's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of WMD's control are such that WMD assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the WMD product(s) must test the product(s) for suitability for the intended application and purpose before proceeding the full application of the product(s). WMD reserves the right to change the properties of its products without notice. All sales of WMD product(s) are subject to its current terms and conditions of sale.

Prior to each use of any WMD product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Safety Data Sheet which are available at www.WMDaterial.com. Nothing contained in any WMD materials relieves the user of the obligation to read and follow the warnings and instructions for each WMD product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use.



FASTRAC AQUAGROUT

WMD warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WMD SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. WMD SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.