



FasTrac AquaGrout

UNDERWATER CEMENTITIOUS GROUT



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac AquaGrout is a high strength, cementitious grout for underwater and tidal zone use. A highly pumpable and versatile material, FasTrac AquaGrout may be placed from plastic to fluid consistencies for pile encapsulation, underwater grouting, and tidal zone re-pointing applications.

APPLICATIONS

- Pile Encapsulation
- Underwater Grouting
- Tidal Zone Re-Pointing
- Underwater Repairs and Void Filling

FEATURES

- Placement Versatility
- Excellent Underwater Bond Development
- Highly Pumpable
- High Strength

SURFACE PREPARATION

All concrete surfaces shall be free of marine growth, coatings and any substances that will prevent bonding. Underwater tools may be required to achieve a satisfactory clean condition. Maximum bond development is achieved when a clean and roughened substrate surface is attained following ICRI Standard 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Concretes and Concrete Repair using a Concrete Surface Profile (CSP) of 6 to 10. For tidal zone applications, presoak concrete surfaces for 4 – 8 hours prior to material installation.

FORMWORK

All formwork must be rigidly secured and watertight. Seal all internal formwork joints. For pile encapsulation, ensure pile jackets have appropriately sized spacers and bottom seal is strong enough and properly sealed to hold weight of grout. Ports should be spaced every 2 to 3 feet (0.61 to 0.91 meters) or as specified on drawings.

MIXING

For multiple bag mixes, a mortar mixer is required (not cement mixer). Start by adding approximately 3 quarts (2.8 liters) per 50 lb.(22.7 kg.) and add additional water to bring the consistency to a fluid, yet cohesive mix. Do not exceed 4.1 quarts (3.88 liters) of water.

INSTALLATION

Pump grout into formwork through ports or tremie pour into formed area or jacket. Do not allow the grout to freefall more than 5 feet through water.

CURING

No curing is required for underwater placements. For tidal zone applications, wet cure for 24 to 48 hours or use an approved curing compound meeting the requirements of ASTM C 309.



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CLEAN UP

All surfaces, tools and equipment may be cleaned with water prior to material setting.

COVERAGE AND YIELD

50 lb. (22.7 kg) bag yields 0.43 cubic feet (0.012 cubic meters) at a near fluid consistency.

Also available in 2000 lb. (909 kg) bulk bags.

SHELF LIFE AND STORAGE

Shelf life: 1 year from date of manufacture when stored in dry weatherproof conditions.

Storage Temperatures: 40° F (4°C) to 90° F (32° C).

Best results obtained when material is pre-conditioned to between 55° F and 80° F (12.7°C and 26.7°C).

TYPICAL PROPERTIES at 75° F (23.8° C)

TEST METHOD		RESULTS		
		DRYPACK	FLOWABLE	NEAR FLUID
ASTM C109 Compressive Strength				
	1 Day	7,000 psi (48.2 MPa)	3,000 psi (20.7 MPa)	2,500 psi (17.2 MPa)
	7 Days	9,500 psi (65.5 MPa)	5,500 psi (37.9 MPa)	5,000 psi (34.5 MPa)
	28 Days	10,000 psi (68.9 MPa)	7,500 psi (51.7 MPa)	7,000 psi (48.2 MPa)
ASTM C882 Slant Shear Bond				
	1 Day	2,000 psi (13.8 MPa)		
	7 Days	2,500 psi (17.2 MPa)		
ASTM C266 Set Time				
		4 to 6 hours	5 to 7 hours	6 to 8 hours

HEALTH AND SAFETY INFORMATION

This product contains Portland cement, silica sand and respirable silica. Respirable silica is a suspected human carcinogen by NTP and IARC. Use proper PPE when working with this material, including eye protection, gloves and NIOSH / MSHA approved dust masks or respiratory protection as required to prevent inhalation and accidental ingestion. Read SDS thoroughly before use.

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CEMENTS | CONCRETES | EPOXIES | GROUTS | MORTARS | MIXING SYSTEMS | HFST



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