Hard-Rok Fast-Set Cementitious Grout

Initial set time of 20 minutes Final Set Time in 60 minutes at 75 °F (24 °C)

ADHESIVES TECHNOLOGY... HARD-ROK ANCHORING CEMENT



SAVE TIME AND MONEY - DRILL HOLES UP TO DOW SMALL THAN OTHER COMPETING PRODUCTS. USE STANDARD THREADED ROD OR STANDARD BOLTON. YOU DETERMINE WORKING TIME FROM 5 TO 15 MINITE NO NEED TO BOAK ARCHOR HOLES IN WHITE ROB 30 TO FRIGH TO USE. EASY INTERIOR AND EXTERIOR USE JUST ADO WITH.

CONCRETE IN LESS THAN 1 HOUR



PRODUCT DESCRIPTION

HARD-ROK ANCHORING CEMENT is a rapid setting, high strength, non-shrink, non-metallic cementitious product used in anchoring and grouting applications. This hydraulic cement is quickly and easily mixed with water to either a pourable or putty-like consistency and reaches initial set time in 20 minutes and final set time in 60 minutes - 75 °F (24 °C).

GENERAL USES & APPLICATIONS

- » Fence posts, gates, anchoring threaded rod and reinforcing bar (rebar), railings, signs and parking meters
- » Anchoring bolts and machinery
- » Patching holes and cracks in roads and sidewalks

ADVANTAGES & FEATURES

- » Initial set time of 20 minutes
- » Fast setting, with full set time in 60 minutes at 75 °F (24 °C)
- » Non-shrink and non-metallic
- » High flexural strength
- » Bond strength outperforms rebar
- » Both exterior and interior use
- » Withstands water erosion



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Property	Parameter	ASTM Standard	Units	Result
Compressive Strength	3 hrs	C109	psi	2,100
			(MPa)	(14.5)
	1 day		psi	4,500
			(MPa)	(31.0)
	3 days		psi	4,900
			(MPa)	(33.8)
	7 days		psi	5,600
			(MPa)	(38.6)
	28 days		psi	7,200
			(MPa)	(49.6)
Flexural Strength		C293	psi	1,260
			(MPa)	(8.7)
Density ¹		C138	lb/ft ³	129
			(kg/M³)	(2,067)
Bond Strength ³	1/2 in. A325 Bolt ²	C900	lb-F	28,900
			(kN)	(128.6)
	1 in. A325 Bolt		lb-F	73,000
			(kN)	(324.7)
	#4 Deformed Rebar ²		lb-F	26,500
			(kN)	(117.9)
	#8 Deformed Rebar ²		lb-F	75,000
			(kN)	(33.4)
Tensile Strength	7 days	C307	lb-F	450
			(kN)	(3.1)

HARD-ROK ANCHORING CEMENT PERFORMANCE TO ASTM STANDARDS

1. Density based on 115 lbs. of HARD-ROK mixed with 1.75 gallons of water.

 Density based on Fronts. On FIGUE-ROCK mixed with Frogrammers of water.
Failure mode was failure of the steel anchoring element.
For 1/2 in. A325 bolt, the hole diameter was 1 1/2 in. and the depth of hole was 6 in. For 1 in. A325 bolt the hole diameter was 2 1/4 in. and the depth of the hole was 8 in. For #8 rebar, the hole diameter was 1 in. and the depth of the hole was 8 in. For #8 rebar, the hole diameter was 1 in. and the depth of the hole was 8 in. For #8 rebar, the hole diameter was 1 in. and the depth of the hole was 8 in. For #8 rebar, the hole diameter was 1 in. and the depth of the hole was 8 in. For #8 rebar, the hole diameter was 1 in. eter was 2 in. and the depth of the hole was 16 in. Values reported represent ultimate failure loads.

HARD-ROK ANCHORING CEMENT SET TIME¹

Base Material Temperature ^⁰ F (^⁰ C)	Initial Set Time	Final Set Time
75 (24)	20 mins	1 hr

1. Temperature will affect set times, with colder temperatures causing slower set times and warmer temperatures causing faster set times.