

UNIQUE® HIGH PERFORMANCE FAST SET MORTAR

COMMERCIAL-GRADE CONCRETE PATCHING MATERIAL



JUST ADD WATER

Single Component - no bonding agents required

Product Description

UNIQUE® High Performance Fast Set Mortar (HPFS) is a blend of hydraulic cement, graded silica sand and performance-enhancing additives.

Benefits / Features

- High early strength
- Freeze-thaw resistant
- Excellent bond strength
- Sulfate resistant
- Open to foot traffic in 1 hour
- Open to vehicle traffic in 3 hours
- Applicable to virtually every horizontal concrete application less than 6" deep

Recommended Uses

Use to repair roadways, industrial floors, loading docks, parking garages, bridge decks, footings and sidewalks.

Coverage

10 pounds of **UNIQUE** High Performance Fast Set Mortar yields approximately 0.09 cubic foot of finished product when mixed with 22 ounces of potable water.

Shelf Life

Two years if stored in an unopened pail according to ACI Guidelines.



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UNIQUE HIGH-PERFORMANCE FAST SET MORTAR TEST RESULTS

		1 hr.	3 hrs.	1 day	7 days	28 days
Compressive Strength:	ASTM-C109	2500	5500	6400	6900	8400
Flexural Strength:	ASTM-C78			1000	1350	1575
Bond Strength (Slant Shear Test):	ASTM-C882			2300	3100	N/A
Splitting Tensile:	ASTM-C496			625	975	1145
Flow @+5 min.	ASTM-C1473	>148%				
Set Time:	ASTM-C403	Initial: 15 minutes Final: 20 minutes				
Chemical Resistance: (Sulfide Solution)	ASTM-C267	No Weight Loss:			56 days	
Length Change of Hardened Hydraulic-Cement:	ASTM-C157 (as modified by ASTM-C928)	+0.036 wet bar -0.0144 dry bar				
Scaling Resistance:	ASTM-C672 (as modified by ASTM-C928)	Cycles	Rating			
		5	0			
		10	0			
		15	0			
		20	0			
		25	0			
Test Temperature (Powder):	72°	Water Content:			12.1%	

Extending

Option to extend up to 50% using clean pre-dampened 3/8" (ASTM-C33) aggregate.

Depth of Patch	ASTM-C33 Aggregate	UNIQUE [®] High Performance Fast Set Mortar Pounds	Aggregate Pounds
1/2"-1"	N/A	N/A	N/A
1"-3"	25% by weight	10#	2.5#
3"-6"	50% by weight	10#	5#
6"+	***	*** For thicker applications, contact UNIQUE's Technical Department.	

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