






Independent 3rd Party Product Performance Results Applicable Standard C928 for Rapid Hardening Cementitious Materials for Concrete Repair	Compressive Strengths psi						ASTM Test Method
							
1 Hour	3000						C109/C39
1.5 Hours							C109/C39
2 Hours							C109/C39
3 Hours	>4000	>2800	>2300	>2500	>2500		C109/C39
4 Hours							C109/C39
24 Hours	>4500	>5000	>3000	>5000	>5000		C109/C39
7 Days	>5000	>6000	>4000	>6000	>7000		C109/C39
28 Days	>6000	>7000	>7000	>7000	>9000		C109/C39
Bond Strengths psi							
1 Day	>1200	>1200	>1500	>1500	>1500		C882
7 Days	>1375	>1900	>1600	>2000	>2000		C882
Flexural Strengths psi							
7 Days	>500	>600	>600	>875	>900		C78
28 Days	>600	>1400	>650	>900	>1200		C78
Tensile Strengths psi							
7 Days	>150	>200					C496
28 Days	>250	>400	>300	>500	>500		C496
Scaling Resistance lbs./ft <sup>2</sup>							
50 Cycles	0	0	0	0	0		C672
Modulus Of Elasticity million / psi							
28 Days	1.93	2.77	3.17	5.2	5.41		C469
Coefficient of Thermal Expansion million / F							
28 Days	2.95	2.52	2.01	5.83	1.32 (TX DOT428-A)		(AASHTO) TP-60
Length Change, % of Total Length 28 days soak / 28 days dry							
28 Days	< 0.020 / < 0.030	TBD / -0.002	-0.001 / -0.001	TBD / <0.022	do not wet cure / <0.035		C157
Rapid Freeze Thaw Resistance (Durability Factor - Retained Percentage of Dynamic Modulus)							
300 Cycles	99.6 %	100 %	100 %	100 %	100 %		C666A
Set Times @72°F / 22°C							
Initial (Working Time)	4 - 6 min.	10 - 15 min.	15 - 20 min.	15 - 20 min.	20 - 30 min.		
Final	6 - 8 min.	25 - 35 min.	25 - 30 min.	25 - 35 min.	30 - 40 min.		
Return To Service							
Foot Traffic	20 min.	1.5 hours	1.5 hours	45 min.	1 hour		
Wheeled Traffic	1 hour	3 hours	3 hours	1.5 hours	2 hours		

AQUAFIN Inc. was founded in January 1989 and is a member of the SCHOMBURG Group. AQUAFIN offers a full range of products to repair, protect, waterproof and vaporproof concrete, masonry, brick, and stone substrates. In addition to providing the highest quality products we are dedicated to supporting our clients with technical expertise and practical know how gained over many years of on-the-job experience.

We are excited that Pavemend Brand products for rapid, permanent repair are now a part of the AQUAFIN family of brands and we are committed to continue delivering the same high quality performance products end users have come accustomed to expect.



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Aquafin, Inc. is a member  
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Waterproof & Protective  
Coatings

Concrete Restoration

Moisture Vapor Mitigation &  
Self-Leveling Underlayments  
& Toppings

Injection Grouting

# PAVEMEND

## Rapid, Permanent Repairs for Concrete and Asphalt





# Finish First with Pavemend

RETURN TO SERVICE and the “need for speed” are the focus of Aquafin’s Pavemend® family of ultra high performance concrete repair products. They include a variety conveniently packaged mortars and granite extended structural concretes that address the entire spectrum of permanent concrete repair challenges.

Pavemend® repair technology has a 10+ year track record of successfully solving some of the most challenging infrastructure repair problems in the world. The Pavemend® products have been embraced by the US Military, State DOT’s, port authorities, commercial maintenance companies, airports and industrial manufacturing facilities.



## Typical Applications:

Armor / Header Joints

Bridge Decks

Runways / Taxiways

Pre-Cast Repair

Full & Partial Depth Slab Replacement

Grouting / Mud Jacking

Form & Pour

Post Tension Caps

Cast In Place

Curb & Gutters

Impact Damage

Joint Spalls



### Pre-Extended (3/8”), Fiber Reinforced RAPID REPAIR CONCRETE

- 2 hr return to service
- Application temperatures: 40°F - 120°F (4°C - 49°C)
- Pre-extended with 3/8” granite stone & reinforced with fiber
- Mix in a portable concrete mixer
- Use for small, medium and large volume placements



### Semi-Self Leveling VERY RAPID Repair Mortar

- Trowelable & Extendable
- 1 hr return to service (> 3,000 psi)
  - Application temperatures: -20°F - 110°F (-28°C - 43°C)
  - Extendable up to 100% by weight with 3/8” (1 cm) or 1/2” (1.3 cm) clean washed fractured stone



### Semi-Self Leveling, RAPID Repair Mortar

- Trowelable / Extendable
- 3 hr return to service (> 3,000 psi)
  - Application temperatures: 40°F - 120°F (4°C - 49°C)
  - Extendable up to 100% by weight with 3/8” (1 cm) or 1/2” (1.3 cm) clean washed fracture stone
  - Can be returned to a gel state by re-mixing with drill and paddle



### Semi-Leveling, Pre-Extended Rapid Repair Flowable Concrete

- 2 hr return to service (> 2500 psi)
- Application temperatures: 50°F - 110°F (10°C - 43°C)
- Exceptional Volume Stability
- Apply >1/2” (1.3 cm) depth



### Vertical & Overhead RAPID Repair Mortar

- 3 hr return to service (> 2,500 psi)
- Application temperatures: 40°F - 100°F (4°C - 37°C)
- Can be returned to a gel state by re-mixing with drill and paddle
- Applied in a single lift from 1/16” to over 4” (~1.5 mm - 100 mm) without bonding agents and is easily sculpted and shaped



### Permanent Asphalt Repair Material

- Opened to traffic immediately after compaction
- Application temperatures: 0°F - 120°F (-17°C - 48°C)
- Requires only water and compaction
- No solvents or VOC's
- Applied as cold patch, same durability as hot mixed asphalt

