



Waterproof & Protective  
Coatings

Concrete Restoration

Moisture Vapor Mitigation &  
Self-Leveling Underlayments  
& Toppings

Injection Grouting

## PAVEMEND

Rapid, Permanent Repairs for  
Concrete and Asphalt



Now an  
AQUAFIN Brand!

**pavemend**<sup>®</sup>



# 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.

The Pavemend® line of repair products include a variety conveniently packaged mortars and granite extended structural concretes that address the entire spectrum of permanent concrete repair challenges.



## 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



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® brand of repair products have been embraced by the US Military in contingency operations overseas and by state DOT's, port authorities, commercial maintenance companies, airports and industrial manufacturing facilities.



**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, 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



**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



**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-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









**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



# 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		>2500			>2500	>2500	C109/C39
3 Hours	>4000	>3500	>2800	>2300			C109/C39
4 Hours							C109/C39
24 Hours	>4500	>4000	>5000	>3000	>5000	>5000	C109/C39
7 Days	>5000	>5000	>6000	>4000	>6000	>7000	C109/C39
28 Days	>6000	>6000	>7000	>7000	>7000	>9000	C109/C39
<b>Bond Strengths psi</b>							
1 Day	>1200	>1000	>1200	>1500	>1500	>1500	C882
7 Days	>1375	>1500	>1900	>1600	>2000	>2000	C882
<b>Flexural Strengths psi</b>							
7 Days	>500	>600	>600	>600	>850	>900	C78
28 Days	>600	>850	>1400	>650	>900	>1200	C78
<b>Tensile Strengths psi</b>							
7 Days	>150	>200	>200				C496
28 Days	>250	>300	>400	>300	>500	>500	C496
<b>Scaling Resistance lbs/ft<sup>2</sup></b>							
50 Cycles	0	0	0	0	0	0	C672
<b>Modulus Of Elasticity million / psi</b> (A Mild Modulus of Elasticity Contributes to Long Term Compatibility with Concrete Host)							
28 Days	1.83	3.3	2.77	3.17	5.2	5.41	C469
<b>Coefficient of Thermal Expansion million / F</b>							
28 Days	2.95	2.82	2.52	2.01	5.83	1.32 (TX DOT428-A)	(AASHTO) TP-60
<b>Length Change, % of Total Length 28 days soak / 28 days dry</b>							
28 Days	< -0.020 / < -0.030	-0.0085 / -0.0595	TBD / -0.002	-0.001 / -0.001	TBD / <0.022	do not wet cure / <0.035	C157
<b>Rapid Freeze Thaw Resistance (Durability Factor - Retained Percentage of Dynamic Modulus)</b>							
300 Cycles	99.6 %	99.6 %	100 %	100 %	100 %	100 %	C666A
<b>Set Times @72°F / 22°C</b>							
Initial (Working Time)	4 - 6 min.	7 - 9 min.	10 - 15 min.	15 - 20 min.	15 - 20 min.	20 - 30 min.	
Final	6 - 8 min.	12 - 15 min.	25 - 35 min.	25 - 30 min.	25 - 35 min.	30 - 40 min.	
<b>Return To Service</b>							
Foot Traffic	20 min.	35 min.	1.5 hours	1.5 hours	45 min.	1 hour	
Wheeled Traffic	1 hour	2 hours	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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