



*The Professional's Choice
For Rapid Permanent Repair*

www.pavemend.com

Rapid, Permanent Repair for Concrete and Asphalt Surfaces





High Performance, Immediate & Permanent Repair

CERATECH'S PAVEMEND® family of high performance concrete repair products have become the choice of professionals across the country for their rapid return to service, versatility, ease of use, and superior durability. Department of Transportation Maintenance groups have defined the term “permanent repair” based on the field performance of Pavemend in bridge header joints, partial and full depth bridge deck, concrete pavement, airfield and port repairs. Pavemend's rapid return to service ensures maintenance crews and contractors spend a minimum amount of time exposed to traffic, and lane closures are shortened. Avoid costly repeat repairs, repair it once with **Pavemend®**.

done.smart

Sustainable
High
Performance
Cement
Technology



MADE IN AMERICA

Infrastructure & Surface Repair

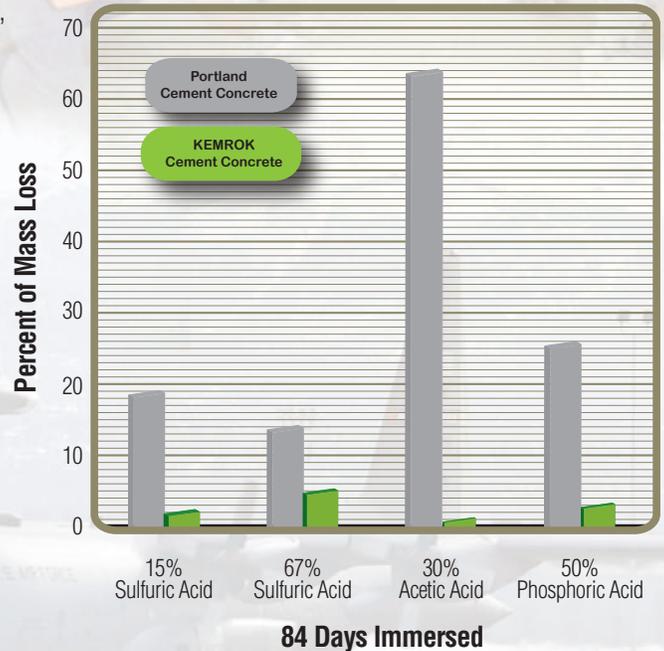
PRODUCT	DESCRIPTION	FEATURES:	WHERE TO USE:
	<p>Pavemend SLQ® Very Rapid Repair Mortar. Pavemend SLQ® is a cementitious, very rapid setting, self-leveling structural repair mortar suitable for very rapid concrete repair in all climates, especially in near freezing and below freezing applications. Pavemend SLQ® offers a 1 hour return to service (RTS), and is ideal for emergency repairs in both horizontal and formed applications.</p>	<ul style="list-style-type: none"> • 1 Hour RTS (> 3000 psi) • Use from -20F to 110F • Add water only • Extendable • Mild MOE for field durability • AFCESA Approved 	<ul style="list-style-type: none"> • Bridge Decks • Pavement • Airfields • Parking Garages • Cold Storage • Anchoring • Warehouses • Dowel Bar Retrofit
	<p>Pavemend SL® Rapid Repair Flowable Concrete. SL® is a rapid setting, semi-leveling, cementitious structural repair concrete. Designed for use in horizontal, sloped, or form and pour repair applications.</p>	<ul style="list-style-type: none"> • 2 Hour RTS (> 2500 psi) • Use from 40F - 110F • Add water only • Pre-extended (1/8") • Horiz., Slopeable, Form & Pour/Pump • Apply >1/2" depth 	<ul style="list-style-type: none"> • Bridge Decks • Pavement • Airfields • Parking Garages • Joint Nosings • Warehouses • Loading Docks • Dowel Bar Retrofit
	<p>DOTLine™ Rapid Repair Concrete. DOTLine™ is fiber reinforced, rapid setting cementitious based structural repair concrete. Designed for use in horizontal, sloped, or form and pour repair applications.</p>	<ul style="list-style-type: none"> • 2 Hour RTS (> 2500 psi) • Use from 40F - 110F • Add water only • Pre-extended (3/8") • Apply >1 1/4" depth 	<ul style="list-style-type: none"> • Bridge Header Joints • Bridge Decks • Full depth concrete repairs • Pavement • Parking Garages • Airfields
	<p>Pavemend 15.0® Rapid Repair Mortar. Pavemend 15.0® is a cementitious, rapid setting self-leveling structural repair mortar. Designed for horizontal and rapid setting form and pour applications. Rapid strength development and low initial viscosity make Pavemend 15.0® ideal for most pre-cast grouting applications.</p>	<ul style="list-style-type: none"> • 2 Hour RTS (> 2500 psi) • Use from 30F - 110F • Add water only • Mild MOE for field durability • AFCESA Approved 	<ul style="list-style-type: none"> • Pre-cast grouting • Form & Pour Repairs • Bridge decks • Airfields • Warehouse Floors • Dowel Bar Retrofit
	<p>Pavemend TR® Rapid Repair Trowelable Mortar. Pavemend TR® is a rapid setting slope grade (up to 60%) structural repair mortar with a gel like consistency suitable for troweling on horizontal and/or sloped grades and for aggregate extension. Pavemend TR® is an exceptional choice for critical infrastructure repairs where workability and return to service are key factors.</p>	<ul style="list-style-type: none"> • 3 Hour RTS (> 2500 psi) • Use from 40F - 120F • Add water only • Extendable • Mild MOE for field durability • AFCESA Approved 	<ul style="list-style-type: none"> • Bridge Decks • Airfields • Anchoring • Dowel Replacements • Pre-cast Grouting • Warehouses • Resloping concrete • Dowel Bar Retrofit
	<p>Pavemend VR® Rapid Repair Vertical & Overhead Mortar. Pavemend VR® is a cementitious, rapid setting one step vertical and overhead structural repair mortar with parging mortar consistency. Pavemend VR® can be applied in a single lift from 1/16" to over 4" without bonding agents.</p>	<ul style="list-style-type: none"> • 3 Hour RTS (> 2500 psi) • Use from 40F - 100F • Add water only • Sculptable (from feather) • Excellent Corrosion Inhibitor 	<ul style="list-style-type: none"> • Underside of bridge decks • Column & Beam Repair • Impact damage Repair • Pile & Pile Caps • Precast Pipe, Vaults and more • Tunnels, Culverts, Sewers • Balconies
	<p>Pavemend Instant Asphalt™ Permanent Asphalt Repair Material. Pavemend Instant Asphalt™ is a <i>high performance</i>, permanent, all climate and planet friendly cold mix asphalt repair material. Pavemend Instant Asphalt™ is a reactive, plant oil based asphalt repair material that requires only water and compaction to provide a permanent asphalt repair. Pavemend Instant Asphalt™ is as fast and convenient to apply as cold patch, while offering the durability of hot mixed asphalt.</p>	<ul style="list-style-type: none"> • Immediate Return to Service • Use from 0 - 120F • Place, Saturate & Compact! • 1 Component • Approved DOT aggregate • Available in 3 grades 	<p>6.0 & 9.0;</p> <ul style="list-style-type: none"> • Potholes & Distressed Asphalt • Airfields • Storm water applications • Utility trenches • 1" or greater overlays <p>4.0;</p> <ul style="list-style-type: none"> • 1/4" overlays • Lane Joint/seam repairs • Alligatored asphalt repairs • Reslope existing asphalt

Industrial & Specialty Repair

KemRok™ pozzolan cement concrete forms a calcium, alumina silicate crystalline structure that is more stable than portland cements CSH gel structure. This non-porous structure offers exceptional resistance to the attacks of Hydrogen sulfide gas, sulfuric, phosphoric acids and more.*

KemRok™ cures quickly, mixes, places and finishes like traditional concrete, and offers vastly improved durability over traditional materials. In many cases utilizing **KemRok™** alleviates the need for a coating system. Compared to traditional repair and new construction materials **KemRok™** will reduce plant shutdowns, and improve serviceability offering a superior ROI.

Comparison of Portland Cement Concrete & KEMROK™ Cement Concrete
Percent of Mass Loss
Through 84 Days Acid Immersion



Portland Cement Concrete



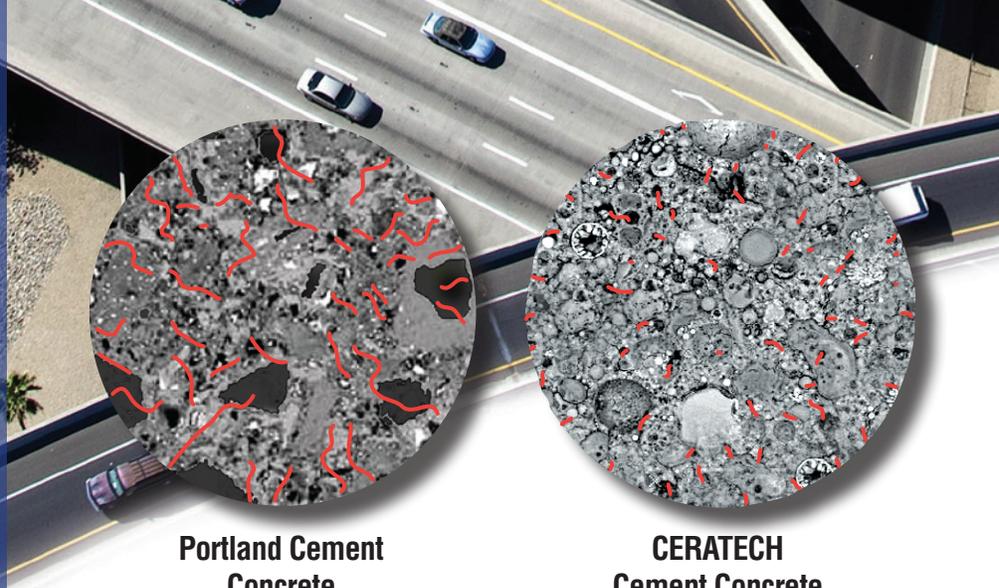
KEMROK™ Cement Concrete

*Contact Field Engineering for specific performance in chemical exposures not indicated.

PRODUCT	DESCRIPTION	FEATURES:	WHERE TO USE:
	KemRok™ Chemical Resistant Repair Concrete. KemRok™ is a rapid return to service, chemical and hydrogen sulfide resistant pozzolan cement repair concrete. KemRok™ places and finishes like traditional concrete, is suitable for horizontal, sloped and form and pour or pump applications and cleans up easily with water.	<ul style="list-style-type: none"> • 3 Hour RTS (> 3000 psi) • Use from 40F - 120F • Add water only • Pre-extended (3/8") • Fiber Reinforced • Suitable for 1 1/4" to full depth • Horiz., Slopeable, Form & Pour/Pump. • Available in bulk configurations 	<ul style="list-style-type: none"> • For Repair or New construction • Pulp & Paper • Petro-Chemical • Wastewater • Food Processing • Chemical Drainage Trenches & Pits • Battery Rooms • Tanks, Containment Structures
	KemRok VR™ Vertical & Overhead Chemical Resistant Repair Mortar. KemRok VR™ is a rapid setting pozzolan cement mortar. KemRok VR™ can be trowel applied in multiple lifts of 1/4 - 1/2" or spray applied (contact Field Engineering for equipment recommendations) in lifts from 1/4" to 3". KemRok VR's™ crystalline structure and unique chemistry provides exceptional resistance to environments with exposure to Chlorides, Sulfates, Sulfuric acids and more.	<ul style="list-style-type: none"> • 1 Day RTS (> 3000 psi) • Use from 30F - 120F • Add water only • Trowel or Spray Application 	<ul style="list-style-type: none"> • Wastewater • Manholes, Wet Wells & Culverts • Tanks, Containment Structures • Pulp & Paper • Petro-Chemical • Food Processing • Sulfur Pits
	FireRok™ High Temperature Repair Concrete. FireRok™ is a high early strength, heat resistant pozzolan cement structural repair concrete. Within 24 - 72 hours of placement FireRok's™ unique chemistry withstands exposures to intermittent high temperature environments up to 1800F.	<ul style="list-style-type: none"> • 4 Hour RTS (> 2500 psi) • Use from 40F - 120F • Add water only • Pre-extended (3/8") • Suitable for 1 1/4" to full depth • Horiz., Slopeable, Form & Pour/Pump • Available in bulk configurations 	<ul style="list-style-type: none"> • For Repair or New construction • Runway areas subject to jet blast • Metal Casting Areas • Powerplant platforms • Industrial applications

PERMANENT Repair Solutions

Pavemend® products utilized by Department of Transportation Maintenance crews are defined as “permanent repair solutions.” When Pavemend® products were initially designed, our parent company CERATECH thoroughly assessed the repair market and completed efforts to design the “ideal” performance based repair products. Mechanical performance for the designated application, typical field conditions, and repair procedures were all factored into the research and development path. The following three components were carefully addressed to ensure exceptional performance – and are today recognized as the factors that define “a permanent repair.”



Portland Cement
Concrete

CERATECH
Cement Concrete

1 Superior Technology. Permanent repair capabilities start with a robust material technology producing a more durable material.

Pavemend® products utilize unique cement technology developed by CERATECH. This technology provides the following benefits:*

- Very low water to cement ratio
- Exceptional dimensional stability
- Meets and/or exceeds DOT test requirements
- Superior chemical and mechanical bond
- Resistance to ASR (Alkali Silica Reaction)
- Resistance to sulfate attack
- Low permeability - discontinuous capillary structure
- Compatibility to host concrete

2 Ease of Application. Permanent repairs are only a reality if the materials offer ease of application in field conditions.*

- Workability at design water
- Turnkey design*
- ‘Add water only’ packaging with user friendly water ratio’s
- Requires no bonding agents, only a SSD (Surface Saturate Dry) substrate condition
- Typically requires no curing
- Water clean-up only
- Optimized working time
- Rapid return to service to limit exposure to traffic

3 Correct repair procedures. It is well recognized that correct repair procedures are required to ensure durable, permanent repair.

Pavemend® recommends following standard ACI (American Concrete Institute) and ICRI (International Concrete Repair Institute) Repair Application Procedures (RAP).

Superior Technology
Ease of Application
Correct Procedure

=

PERMANENT
REPAIR

*Product dependent



Sales and Field Engineering support is available throughout the United States

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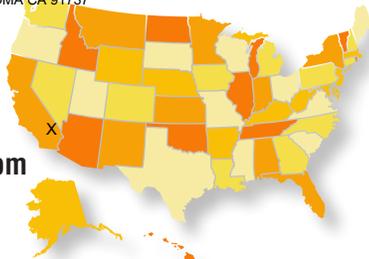
eighthavenu@aol.com

PRODUCT SALES

Phone **1-800-581-8397**

Email sales@pavemend.com

For Military or GSA sales reference GSA Contract: GS-07F-0167W



All **Pavemend**® materials meet and/or exceed ASTM C928 standard for Rapid Hardening Cementitious Materials for Concrete Repair. For questions regarding the appropriate application of **Pavemend**® products, State DOT product approvals and 3rd Party Independent Test Results please contact Field Engineering.

Visit us on the web for the latest product news and technical information.

www.pavemend.com.

Professionals that have embraced **Pavemend**® products include:

US Military

State DOT's

Tollway/Turnpike Authorities

Port Authorities

Airports

Commercial Maintenance Companies

Industrial Manufacturing Facilities

NASCAR



The Benchmark for **Green, Sustainable Concrete Repair Materials**

Pavemend® products feature a market leading commitment to green, sustainable materials. The green commitment far exceeds the traditional LEED points system of the USBGC, and demonstrates our corporate commitment to carbon neutral building materials. The sustainability benefits of **Pavemend**® materials go well beyond the norm in construction materials.

Pavemend® defines this extraordinary green technology as "Planet Friendly Technology (PFT)". The PFT seal ensures you that you are using a material that offers the highest commitment to "Planet Friendly, sustainable materials." When compared to traditional materials one truckload of **DOTLine**™* (approx. 810 units) offers class leading performance and the following PFT benefits:

1. Is near carbon neutral.
2. Reduces CO2 emissions by 9200 lbs.
3. Reduces energy consumption by 21,700,000 BTU's equivalent to 173 Gallons of gasoline.
4. Reduces water consumption by 152 gallons.
5. Reduces landfill requirements by 53 cubic ft.
6. Reduces demand for virgin resources 13,850 lbs.
7. Sustainability benefits through superior durability.

*Contact info@pavemend.com to determine the PFT benefits of a specific **Pavemend**® product.

