Pavemend 15.0™
Self Leveling RAPID REPAIR MORTAR

CSI Div. 03
03 31 23 High Performance Structural Concrete

LEED Points
MR Credit 5.1, Regional Materials Up to 2 Points
IEQ Credit 4.2, Low-Emitting Materials Points and Coatings 1 Point

Using this AQUAFIN product can help contribute to LEED certification of projects in the categories shown above.

General Characteristics:
Pavemend 15.0 is a cementitious, rapid setting, self-leveling structural repair mortar. It is a single component powder that is water activated. Pavemend 15.0 has 7 - 9 minutes of working time and will reach compressive strengths of >2,500 psi within two hours and more than 6,000 psi at 28 days. Designed for horizontal and rapid setting form and pour applications, Pavemend 15.0 can be used in ambient temperature ranges of 30° - 110° F. Rapid strength development and low initial viscosity make Pavemend 15.0 ideal for most pre-cast grouting applications.

Typical Properties:
Pavemend 15.0 is an ideal repair material for roads and bridges, airport runways, warehouse or manufacturing facility floors, post-tension cable repairs and form and pour projects. Can be used as a temporary repair for runways, warehouse or manufacturing facility floors, post-tension cable repairs and form and pour projects. Can be used as a temporary repair for asphalt pavement.

Site Preparation:
• Substrates must be of load bearing capacity, and free from all potential bond breakers such as dirt, dust, grease, oil, sealers, curing compounds, laitance, loose or deteriorated concrete and any bond-inhibiting foreign substances.
• Mechanically prepare surfaces to achieve a surface profile equal to CSP 5 – 7 Concrete Surface Profile as per ICRI Guideline No. 310.2-1997 (Formerly Guideline No. 03732)
• All surfaces to be repaired should be saturated surface dry (SSD) but have no standing water. Hot surfaces should be cooled and shaded while cold surfaces should be heated and sheltered.
• Mechanically remove all loose materials by suitable means such as chipping hammer, chisel, sandblast, high pressure water blast (>5000 psi), or similar methods.

Mixing Instructions:
Critical Mix Temperature (CMT): 15.0 undergoes an exothermic chemical reaction during blending. Heat, the by-product of the reaction, is the indication that the reaction is complete and that the product is ready to be poured. 15.0 has a CMT of 95°F/35°C which MUST BE REACHED before placing to ensure performance. Mixing time to reach the CMT will vary with ambient air and mix water temperatures. Contact Aquafin Technical Department with questions regarding CMT and cold or hot weather placements. The use of an infrared thermometer is required for the mixing process to ensure that the CMT has been achieved.

Additional Physical Properties

Standard NEAT Procedures (Bucket Mixing with Drill & Paddle)
• To ensure product performance, do not divide/separate individual units into smaller portions. Mix entire contents at one time.
• Do not hand mix. A drill (6 amp minimum) with a mixer blade turning at least 500 to 800 rpm is required. Drills with speeds greater than 800 rpm may entrain air in the mix.
• Ideal water temperature is between 65°F/18°C and 75°F/24°C. If ambient temperatures are above 85°F/29°C, use cold water at approximately 55°F/13°C.
1. To begin: Tumble bucket on ground to loosen materials, then dry mix powders in the bucket for approx. 30 seconds with drill and paddle.

Physical and Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Compressive Strengths, psi (MPa)</th>
<th>Flexural Strength, psi (MPa)</th>
<th>Splitting Tensile Strength, psi (MPa)</th>
<th>Bond Strength, psi</th>
<th>Scaling Resistance, lbs/ft²</th>
<th>Modulus of Elasticity, psi</th>
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</thead>
<tbody>
<tr>
<td>ASTM C 109</td>
<td>&gt; 2,500 @ 2 hours</td>
<td>&gt; 600 @ 7 day</td>
<td>&gt; 200 @ 7 days</td>
<td>&gt; 1,000 @ 24 hours</td>
<td>0 @ 25 cycles</td>
<td>3.3 @ 28 days</td>
</tr>
<tr>
<td>ASTM C 78</td>
<td>&gt; 3,500 @ 3 hours</td>
<td>&gt; 850 @ 28 days</td>
<td>&gt; 300 @ 28 days</td>
<td>&gt; 1,500 @ 7 days</td>
<td></td>
<td></td>
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<tr>
<td>ASTM C 496</td>
<td>&gt; 4,000 @ 24 hours</td>
<td></td>
<td></td>
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<tr>
<td>ASTM C 882</td>
<td>&gt; 5,000 @ 7 days</td>
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<td></td>
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<tr>
<td>ASTM C 672</td>
<td>&gt; 6,000 @ 28 days</td>
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<tr>
<td>AASHTO TP 60</td>
<td>2.82 @ 28 days</td>
<td></td>
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<tr>
<td>ASTM C 157</td>
<td>0.0085/-0.0595 @ 28 days soak/dry</td>
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Results provided by licensed engineering test laboratory and represent typical results from production materials. Actual results may vary from third party testing results; however, Pavemend materials meet and/or exceed ASTM C928, and exceed established internal quality control standards. (available upon request). All samples were air cured.

Technical Datasheet

Download the latest version of the Technical Datasheet at www.aquafin.net • www.pavemend.com
2. Pour all required water into bucket, on top of 15.0 powder. It is very important to rapidly incorporate all of the dry 15.0 powders into water to achieve a uniform wet mixture within the first 30 seconds of mixing:

For Each: Add:
45 lb (20.4 kg) bucket 1 U.S. gallon (3.8 of water)

3. Mix material until CMT of 95°F /35˚C is reached. Place material into repair area and spread with a trowel, straight edge or squeegee, filling voids and edges.

For Aggregate Extension: (Bucket Mixing with Drill & Paddle)
- Use only 3/8" (1 cm) or 1/2" (1.3cm) #7 clean washed fracured stone up to 50% maximum by weight.
- Add aggregate to mixed material after mixing for 30 seconds.
- See mixing instruction for NEAT application above.

Application & Finish:
- Minimum NEAT profile thickness is 0.06” (1.5mm). There are no restrictions to the depth of the repair profile.
- For best results, Aquafin recommends monolithic placement of repair materials. Maintain a minimum thickness of 1” if repair material must be layered.
- Upon initial set, a broom finish can be applied. Upon final set, the material can be saw-cut, drilled, sanded and/or polished.
- General loading in 2.0 hours for wheeled traffic and 60 minutes for foot traffic. For applications 0.5” thick and greater, in ambient and/or surface temperatures below 50°F /10°C, extend the loading time by 30 minutes for each 10°F below 50°F /10°C. For applications 1.00” thick and greater, in ambient and/or surface temperatures below 40°F /4°C, extend the loading time by 30 minutes for each 10°F below 40°F /4°C.
- All previously existing joints must be re-established within 1-3 hours of final set.
- Self-curing.
- Clean all tools and equipment with water prior to the material reaching final set.

Limitations:
- Not recommended for surface temperatures above 110°F /43˚C or below -20°F /-10°C. (Contact Aquafin Technical Department for temperatures below 50°F).
- Will not bond to polymers.
- Cannot be pumped or mixed in grout mixer or rotating drum concrete mixers due to rapid set times.

Packaging & Shelf Life:
- PACKAGING
  45 lb (20.4 kg) 5 gallon (18.9) bucket (GSA P/N: C500)
- SHELF LIFE:
  Buckets - 3 years (when stored in original unopened bucket). Buckets are environmentally sealed and require no special storage requirements.

Note:
Installer is responsible for proper product application. Site visits by Aquafin personnel or representatives are solely for the purpose of making technical recommendations, not for providing supervision or quality control.

Safety:
Refer to Safety Data Sheet (SDS). The use of a dust mask, safety goggles and gloves is recommended. This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use. Dispose of water and materials in accordance with Federal, State and Local regulations. Keep out of the reach of children.

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer’s obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

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