



686 S. Adams St.
 Kansas City, KS. 66105
 (913) 321-9000

Raven® 755

High Early Strength Repair Mortar

Technical Data Sheet

Selection & Specification Data																										
<p>Description</p> <p>Raven® 755 is designed as a reinforced, trowel or spray applied high early strength underlayment / repair material. Raven 755 can be a stand-alone product or may be top coated with Raven products after 24 hours. Raven 755 is a proprietary Portland cement formulation.</p> <p>Application Thickness</p> <p>Raven 755 is designed for minimum application of at least ½” thick and up to 2 inches per lift. Additional thickness may be applied in successive lifts.</p> <p>Coverage</p> <p>Theoretical coverage is 13.7 square feet per 60-pound bag at ½” nominal thickness (yielding 0.57 cubic feet per bag). Actual surface coverage will depend upon substrate roughness and irregularities.</p> <p>Physical Properties</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Method</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Compressive Strength</td> <td>ASTM C109, 28 days</td> <td>> 9,000 psi</td> </tr> <tr> <td>Flexural Strength</td> <td>ASTM C293</td> <td>> 1,500 psi</td> </tr> <tr> <td>Tensile Strength</td> <td>ASTM C496</td> <td>> 800 psi</td> </tr> <tr> <td>Shrinkage @ 90% R.H.</td> <td>ASTM C596</td> <td>0 %</td> </tr> <tr> <td>Freeze Thaw</td> <td>ASTM C666, 100 cycles</td> <td>No visible damage</td> </tr> <tr> <td>Bond Strength</td> <td>ASTM C882</td> <td>> 2,000 psi</td> </tr> <tr> <td>Applied Density</td> <td></td> <td>135 ± 5 lbs./ft³</td> </tr> </tbody> </table> <p>The value ranges stated in this Technical Data Sheet are based on system processing under controlled laboratory conditions. Equipment configuration and/or field application conditions may produce variances in the final system values.</p>			Test	Method	Result	Compressive Strength	ASTM C109, 28 days	> 9,000 psi	Flexural Strength	ASTM C293	> 1,500 psi	Tensile Strength	ASTM C496	> 800 psi	Shrinkage @ 90% R.H.	ASTM C596	0 %	Freeze Thaw	ASTM C666, 100 cycles	No visible damage	Bond Strength	ASTM C882	> 2,000 psi	Applied Density		135 ± 5 lbs./ft ³
Test	Method	Result																								
Compressive Strength	ASTM C109, 28 days	> 9,000 psi																								
Flexural Strength	ASTM C293	> 1,500 psi																								
Tensile Strength	ASTM C496	> 800 psi																								
Shrinkage @ 90% R.H.	ASTM C596	0 %																								
Freeze Thaw	ASTM C666, 100 cycles	No visible damage																								
Bond Strength	ASTM C882	> 2,000 psi																								
Applied Density		135 ± 5 lbs./ft ³																								
<p>Surface Preparation</p> <p>Before application surfaces shall be damp but free of flowing or excess water, a Saturated, Surface Dry (SSD) condition is recommended. Follow standard practices: the substrate must be prepared in a manner that provides a uniform, clean, sound, and neutralized surface with all active leaks stopped. The substrate must be free of all contaminants, such as oil, grease, rust, scale, or deposits. Loose and protruding brick, mortar, and concrete shall be removed using a mason's hammer, chisel, or scraper.</p> <p>Concrete and Masonry</p> <p>Surfaces must be sound and contaminant-free with a surface profile equivalent to a minimum of CSP 5 in accordance with ICRI Technical Guideline No. 310.2R-2013. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods.</p> <p>Components and Mixing</p> <p>Dry cement powder, 60 pounds per bag, is to be mixed with 1.2 to 1.5 gallons of clean, potable water (or as recommended by Raven based upon application conditions). Follow mixing procedures noted on product bag.</p> <p>Application</p> <p>Apply with a cementitious spray system, steel/wood trowel or other suitable method. Optimal mixing and application is achieved with the use of a Raven approved low velocity cementitious spray system (such as the Graco M680 Mortar Pump).</p> <p>Application Temperatures</p> <p>No application shall be made when ambient temperature is 40°F or less or when substrate temperatures are (or may become within 24 hours of application) less than 35° F. Precautions shall be taken to keep the ambient, substrate, and mix temperature below 90°F at time of application. Water temperature shall not exceed 80°F. Chill with ice if necessary.</p>																										



Raven® 755

High Early Strength Repair Mortar Technical Data Sheet

Cure Time	
<p>Caution should be taken to minimize exposure of applied product to sunlight and air movement. If time between applications of additional product is to be longer than 15 minutes, place cover over structure to restrict air movement. At no time should the finished product be exposed to sunlight or air movement for longer than 15 minutes. In extremely hot and arid climates, surfaces shall be shaded while application is in process.</p>	<p>In environments where the humidity level is below 70% the applied product shall be kept damp or coated with Raven 155, Raven 171FS, or Raven 175 primers to prevent moisture loss.</p> <p>At 72°F, working time is 30 minutes, initial set time is 8 hours and cure 24 hours before surface preparation for polymer topcoat.</p>
Cleanup & Safety	
<p>Cleanup</p> <p>Cured product may be disposed of without restriction.</p>	<p>Safety</p> <p>SDS's are available on the website, (www.ravenlining.com) or upon request. Consult the Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided on the SDS or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Keep uncured product away from children at all times.</p>
Packaging, Shelf Life & Storage	
<p>Packaging</p> <p>Available in 60 pound bags with 40 bags per pallet. Raven 755 is available through Raven Certified Applicators.</p>	<p>Shelf Life</p> <p>Product shelf life is 1 year from purchase date in sealed bags, stored in a sheltered area between 40°F and 110°F. Materials are to be kept dry and protected from weather.</p>
Warranty	
<p>Limited Warranty. Company warrants its goods to be free of manufacturing defects. Goods manufactured by Company will comply with all applicable federal, state and local laws and regulations. Company makes no warranty as to any parts or equipment manufactured by others. Customer shall look solely and only to the manufacturer of such parts or equipment with respect to any warranty claims. Company hereby assigns to Customer the original manufacturer's warranties to all such equipment and parts, to the full extent permitted. THE AFORESAID IS THE EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. SPECIFICALLY, THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.</p> <p>Limitation of Liability. COMPANY'S LIABILITY FOR DEFECTIVE OR NON-CONFORMING GOODS SHALL BE LIMITED TO, AND SHALL IN NO EVENT EXCEED, THE AMOUNT PAID BY CUSTOMER FOR SUCH DEFECTIVE OR NON-CONFORMING GOODS. UNDER NO CIRCUMSTANCES SHALL COMPANY BE LIABLE FOR ANY SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOST PROFITS. In no event may any claim by Customer arising from or relating to any sale of any goods or services referenced herein be brought more than one year after the date of delivery of such Goods.</p>	