



# Raven 755

## DESCRIPTION

Raven® 755 is designed as a reinforced, spray applied high early strength underlayment / repair material. Raven 755 can be a stand-alone product or may be topcoated with Raven products within 3 - 6 hours. Raven 755 is a proprietary Portland cement formulation.

## TYPICAL USES

Surfaces where rehabilitation of an existing structure requires enhancement of the structural integrity and where exposure to concentrated acids and caustics may be expected, including:

- Tunnels and pipelines
- Clarifiers
- Digesters
- Tanks
- Secondary containment
- Manholes
- Wastewater facilities
- Floors and walls

## APPLICATION THICKNESS

Raven 755 is designed for applications of a **minimum** total thickness of not less than ½”.

## COVERAGE

Theoretical coverage is 13.7 square feet per 65 pound bag at ½” nominal thickness (yielding 0.57 cubic feet per bag). Actual surface coverage will depend upon substrate deterioration and irregularities.

## APPLICATION

Apply with a cementitious spray system or other suitable method. Optimal mixing and application is achieved with the use of a Raven approved low velocity cementitious spray system (such as SPRAYMATE® 35C, 35D or MINIMATE® MACHINE).

## COMPONENTS AND MIXING

Dry cement powder, 65 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.

## CLEAN UP

To clean tools and equipment flush with water. To clean skin, wash immediately and thoroughly with soap and water. Refer to the Material Safety Data Sheet for additional information on health and safety.

## CURE TIME

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. In environments where humidity level is below 70% the applied product shall be kept damp or coated with Raven 155, Raven 169, or Raven 171 primers.

## APPLICATION TEMPERATURES

No application shall be made to frozen surfaces or if freezing is expected to occur within the substrate within 24 hours of application. Precautions shall be taken to keep the mix temperature at time of application below 90°F. Water temperature shall not exceed 80°F. Chill with ice if necessary.

## SURFACE PREPARATION

Loose and protruding brick, mortar, and concrete shall be removed using a mason's hammer, chisel and/or scraper. All voids shall be filled and active leaks shall be stopped per Raven specifications. Prior to application surfaces shall be damp but free of flowing or excess water; a Saturated, Surface Dry (SSD) condition.

**CONCRETE AND MASONRY** surfaces must be sound and contaminant-free with a surface profile equivalent to a CSP2 to CSP5 in accordance with ICRI Technical Guideline No. 03732. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods.

## AVAILABLE PACKAGES

Available in 65 pound bags with 40 bags per pallet. Raven 755 is available through Raven Certified Applicators.

## SHELF LIFE AND STORAGE

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.

## SAFETY

Consult the Material Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Material Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided on the MSDS or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Contact Raven to obtain a copy of the Material Safety Data Sheet at 800-324-2810.

## Raven 755

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### TYPICAL PROPERTIES<sup>(1)</sup>

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DESCRIPTION	METHOD	RESULT
Compressive Strength	ASTM C 109, 28 days	> 9,000 psi
Flexural Strength	ASTM C 293	> 1,500 psi
Tensile Strength	ASTM C 496	> 800 psi
Shrinkage @ 90%R.H.	ASTM C 596	0%
Freeze/Thaw	ASTM C 666, 100 cycles	no visible damage
Bond Strength	ASTM C 882	> 2,000 psi

(1) Typical properties are to be considered as representative of current production and should not be construed as specifications.

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