



Raven 715

DESCRIPTION

Raven® 715 Plug is a fast setting cementitious material for sealing active leaks. It may be used as a dry powder or thick paste to eliminate water infiltration prior to coating.

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

COVERAGE

A 50 pound pail yields 0.38 cubic feet per pail. Coverage depends on the size and amount of leakage being stopped.

APPLICATION

Apply dry or as a very thick paste by hand or trowel. The material is held in place, allowing the infiltrating liquid to set the mix. Some leaks may require weep holes to localize the infiltration during the applications. After application the weep holes shall be plugged.

COMPONENTS AND MIXING

Dry material, 50 pound pail, to be used as is or if a slurry is required, water is added to the dry material while stirring so as to produce a consistency fitting the application, but not to exceed one (1) part water to three (3) parts Raven 715 Plug by volume. Water should be clean and potable. Mixing should be done near the area to be repaired. Mixing may be done with a gloved hand, a wooden spoon, or a trowel.

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

No special curing requirements are needed. High water usage increases the set time, but in general, one minute can be considered maximum.

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

The area to be repaired must be free of all debris, loose brick, mortar, or concrete. All foreign material must be removed from the area around the leak to be stopped using a high-pressure water spray (minimum 3,000 psi). Unusual conditions such as heavy grease build-up or residues of industrial or processing wastes may require sand-blasting or chemical cleaning. Small cracks should be enlarged by chipping with a hammer and chisel to facilitate filling the crack with Raven 715 Plug slurry or dry pack.

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

Raven 715 Plug is available in 50 pound pails through Raven Certified Applicators.

SHELF LIFE AND STORAGE

Product shelf life is 1 year from purchase date in sealed pails, 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.

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TYPICAL PROPERTIES⁽¹⁾

DESCRIPTION	METHOD	RESULT
Compressive Strength	ASTM C 109, 1 hour	> 1,000 psi
Compressive Strength	ASTM C 109, 24 hours	> 2,500 psi
Pull Out Strength	ASTM C 234	14,000 pounds
Sulfate Resistance (2,000 ppm)	ASTM C 267, 15 cycles	no weight loss
Freeze/Thaw	ASTM C 666, 100 cycles	no visible damage

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

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