



Distributed by JANELL, INC.



03 15 13 WATERSTOPS

Rapid Plug
Rapid-Setting Hydraulic Patch

DESCRIPTION

Rapid Plug is a blend of hydraulic cement and proprietary admixtures used for plugging and stopping water or fluid leaks in concrete structures and masonry walls. When mixed to a thick consistency and hand-formed, **Rapid Plug** will set in 3 to 5 minutes to seal out water. **Rapid Plug** is a non-corrosive and non-rusting material.

USES

Rapid Plug is ideal for interior and exterior applications to stop the seepage of water through cracks and faults in concrete and masonry structures such as:

- Dams, basements, swimming pools, manholes
- Cisterns, water tanks, underground electric vaults
- Elevator pits, mines, tunnels, sewers, culverts
- Water pipe joints
- Any situation requiring a fast, durable long lasting repair

BENEFITS

- Durable: Provides lifetime repairs
- Color: Consistent color match for concrete
- Resistant: Withstands freeze/thaw cycles
- Fast Setting: Sets in 3 to 5 minutes
- Performance: Instantly stops seepage
- Vertical and overhead applications
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **Rapid Plug** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bondbreakers. All unsound concrete should be removed to ensure a good bond. Best results will be obtained by undercutting the area to be filled. Small cracks should be enlarged to maximize bonding area. ACI recommends that the area to be patched should be saturated for 24 hours before placement. Remove any standing water. Surface should be saturated, surface dry (SSD). Always apply a test patch. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

MIXING

Pre-wet mixing container and empty excess water. Add a sufficient amount of water to achieve a putty consistency when mixed. Mix only enough material that can be placed within working time. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PLACING

For general repairs, force material into the area to be repaired by hand or with a trowel. Fill to full depth and trowel to final level without overworking the material. To stop running water, mold material by hand into a ball or wedge shape and hold **Rapid Plug** in hand or on a trowel until material becomes warm. Press firmly into opening and maintain pressure on the patch until material stops the leak or approximately 3 to 5 minutes. Trowel material into final shape without damaging plug. For sealing cracks in walls or floors, force **Rapid Plug** into the crack by starting at the area with the least amount of pressure. Hold into place and maintain pressure until the material has hardened.

STORAGE

Normal cement storage and handling practices should be observed. Store material in an interior, cool, dry place. Shelf life is one year in original, unopened container.

LIMITATIONS

In addition to limitations already mentioned, please note the following. Do not apply when the surface or ambient temperature is below 40°F (4°C) or expected to fall below 40°F (4°C) within 48 hours. Do not apply over surfaces that are frozen or contain frost. Do not apply over any active faults or cracks in the substrate without addressing any movement that may occur. **Rapid Plug** will not permanently repair cracks and joints subjected to thermal or structural movement. Allow concrete to fully cure for 28 days before use of this product. This material is not intended for use as a horizontal wearing surface. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your Janell representative.

Packaging: 50 lb (22.7 kg) pail, 36 pails per pallet



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of $73.5 \pm 3.5^{\circ}\text{F}$ ($23 \pm 2^{\circ}\text{C}$) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent **Rapid Plug** with 7.0 quarts water unless listed otherwise. Tests are conducted under standardized conditions for comparative purposes, and results may not be representative of performance under field conditions.

Property and Test Method		Results		
Compressive Strength ASTM C109	1 Day 2,000 psi (13.78 MPa)	3 Days 3,500 psi (24.13 MPa)	7 Days 4,000 psi (27.57 MPa)	28 Days 5,500 psi (37.92 MPa)
Rate of Set ASTM C266	Working Time :01	Initial :03	Final :05	
Density ASTM C138	128 lb/ft³ (2,050 kg/m³)			
Modulus of Elasticity ASTM C469	2.8 x 10⁶ @ 28 days (19.0 GPa)			
Scaling Resistance ASTM C672	Cycles 25	Scaled Material 0 kg/m² (0 lb/ft²)		
Coefficient of Thermal Expansion CRD C39	7.8 x 10⁻⁶ in/in°F (14.04 x 10⁻⁶ cm/cm°C)			

DANGER

This product contains Crystalline Silica (CAS# 14808-60-7) and Portland Cement (CAS# 65997-15-1). Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.



WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

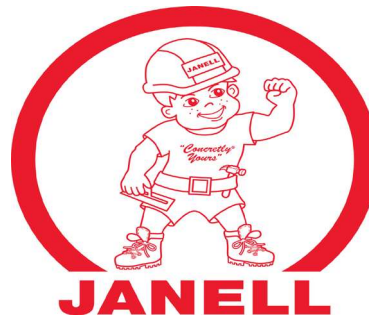
FIRST AID

If swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

MANUFACTURER/TECHNICAL SERVICE

Exclusively manufactured for Janell Inc. by US SPEC of Denver, CO.

Contact your Janell representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets.



Cincinnati, OH: 513-489-9111

Norwood, OH: 513-651-9111

Erlanger, KY: 859-341-9111

Dayton, OH: 937-866-9111

Columbus, OH: 614-224-9111

Lexington, KY: 859-254-9111

NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price. See product packaging for complete limitation of warranties and liability.

Yield: 50 lb (22.7 kg) will fill approximately 0.43 ft³ when 7.0 quarts mixing water is used.