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## *Strongcrete* Rapid Setting Repair Mortar

### **DESCRIPTION**

**Strongcrete** is a rapid setting, rapid hardening concrete patching material that exhibits excellent flexural properties, shear bond strength and compressive strength. **Strongcrete** is a blend of portland cement and proprietary admixtures. **Strongcrete** offers superior resistance to de-icing salts, petroleum products and other chemicals prevalent on concrete roadways. In addition, **Strongcrete** will not rust or corrode reinforcing steel under moist, humid conditions.

### **USES**

**Strongcrete** is ideal for a wide variety of concrete repairs:

- Highways
- Bridge decks
- Pavements
- Airport runways
- Warehouse floors
- Industrial plants

### **BENEFITS**

- Resilient: Withstands freeze/thaw cycles and corrosive elements
- Rapid Set: High early strength, open to traffic in as little as one hour
- Performance: Excellent compressive strengths
- Consistent: Strict Quality Control testing and standards

### **STANDARDS**

**Strongcrete** meets and exceeds the requirements of ASTM C928 R3.

### **SURFACE PREPARATION**

All surfaces in contact with **Strongcrete** 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. Saw cut the perimeter of the area being patched into a square with a minimum depth of 1/2". Smooth, dense surfaces need to be mechanically abraded to provide necessary bonding requirements. Mechanically prepare the substrate to a minimum CSP 5 following ICRI Guideline 310.2R to allow proper bonding. ACI recommends the area to be patched should be saturated for 24 hours before placement. Remove any standing water. Surface should be saturated surface dry (SSD). For best results, scrub some of the mixed components into the prepared surface. Do not allow scrub coat to fully dry before placement. 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.

### **APPLICATION THICKNESS**

Featheredge - 3", Up to 8" Extended

### **COVERAGE/YIELD**

50 lbs (22.7 kg) will fill approximately 0.43 ft<sup>3</sup> (0.012 m<sup>3</sup>) when 3.5 quarts mixing water is used.

### **MIXING**

For best results, use a mechanical mixer with rotating blades or use a heavy duty 1/2" (15 mm) (or larger) low-speed, corded drill and mixing paddle #6 per ICRI Technical Guideline 320.5. Pre-wet mixer and empty excess water. Place 3.5 quarts of cool, clean potable water per 50 lb (22.7 kg) bag in mixer, then

### **MIXING (continued)**

add dry material. Mix on low RPM for a total of 3 to 5 minutes until a homogeneous mixture is achieved. Mix only enough material that can be placed within working time. For placements greater than 3" depth, **Strongcrete** must be extended 30% by weight of powder, with clean, washed and dried 3/8" (1 cm) pea gravel. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

### **PLACING**

**Strongcrete** should be placed upon completion of mixing. Place material consistently, avoiding any air entrapment. Pour material into prepared sawcut area, ensuring that all pores and voids are filled. Force material against edge of repair, working away from center. Scream or float to the level of the surrounding concrete, then trowel, brush or broom to the desired finish.

### **FINISHING & CURING**

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming compound.

### **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 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. Allow concrete to fully cure for 28 days before use of this product. 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) bag, 63 bags per pallet**



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of 73.5 ± 3.5°F (23 ± 2°C) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent Strongcrete with 3.5 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.

Table with 4 columns: Property and Test Method, 3 Hours, 1 Day, 7 Days, 28 Days. Rows include Compressive Strength, Rate of Set, Length Change, Modulus of Elasticity, Freeze/Thaw Resistance, Scaling Resistance, Bond Strength, Flow, Coefficient of Thermal Expansion, and Corrosion Resistivity.

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. Keep away from children. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

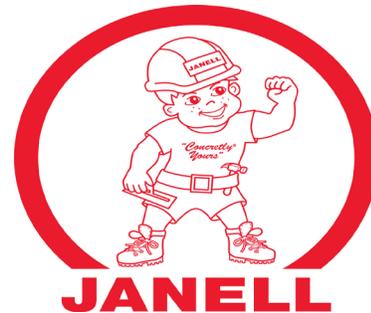
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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 Dayton, OH: 937-866-9111
Norwood, OH: 513-651-9111 Columbus, OH: 614-224-9111
Erlanger, KY: 859-341-9111 Lexington, KY: 859-254-9111

LIMITED WARRANTY: The manufacturer warrants that this product is free from defects in material and workmanship, and will perform per the manufacturer product literature in effect at the time of purchase. This warranty is for one (1) year from the date of purchase. Any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of this express warranty. This warranty applies only if the product is used, in strict accord with the manufacturer published instructions. The sole and exclusive remedy under this warranty is replacement of the defective product or refund of the purchase price, at the manufacturer's option. CONSEQUENTIAL, SPECIAL, AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. All claims under this warranty must be submitted to the manufacturer by calling 303-778-7227. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.