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*Swiftset*  
*Rapid Setting Repair Patch*

### **DESCRIPTION**

**Swiftset** is a rapid setting, rapid hardening concrete patching material designed for horizontal, vertical and overhead applications. **Swiftset** is a blend of portland cement, selected aggregates and proprietary admixtures. **Swiftset** has been specifically formulated to provide excellent workability while demonstrating similar physical characteristics to the concrete substrate. This property allows for the even distribution of stresses placed on the repair by dynamic loading and freeze/thaw conditions.

### **USES**

**Swiftset** is ideal for a wide variety of concrete surface repairs:

- Precast concrete products
- Tilt-up panels
- Curbs
- Steps
- Columns
- Sidewalks

### **BENEFITS**

- Resistant: Withstands freeze/thaw cycles
- Versatile: Horizontal, vertical and overhead
- Performance: Excellent flexural, tensile and compressive strengths
- Consistent: Strict Quality Control testing and standards

### **STANDARDS**

**Swiftset** meets and exceeds the requirements of ASTM C928 R2.

### **SURFACE PREPARATION**

All surfaces in contact with **Swiftset** 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. 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 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). 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**

1/8" - 2"

### **COVERAGE/YIELD**

50 lbs (22.7 kg) will fill approximately 0.43 ft<sup>3</sup> (0.012 m<sup>3</sup>) when 4.0 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

### **MIXING (continued)**

drill and mixing paddle #6 per ICRI Technical Guideline 320.5. Pre-wet mixer and empty excess water. Place 3.5–4.0 quarts of cool, clean potable water per 50 lb (22.7 kg) bag in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes to achieve desired consistency. 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**

**Swiftset** should be placed upon completion of mixing. Place material consistently, avoiding any air entrapment. Trowel material onto the surface to be repaired, ensuring all pores and voids are filled. Force material against edge of repair, working away from center. After leveling, the patch can be troweled, brushed or broomed to the desired finish. When material has reached the proper set, it can be shaved, shaped or molded with a steel trowel. Multiple lifts can be applied. Each lift should be between 1/8" and 2" thick. Profile or roughen each lift to ensure a good bond.

### **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 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. 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.

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

\*3.75 quart water ratio

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.

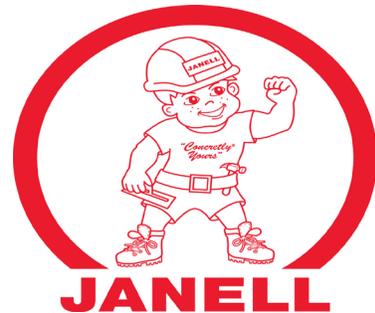
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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.

MANUFACTURER/TECHNICAL SERVICE

Exclusively manufactured for Janell Inc. by US SPEC of Denver, CO. Contact your Janell representative for the most current product information.



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.