



## SAKRETE FAST SET

SAKRETE Fast Set is a pre-blended, fast-setting, high strength, concrete material. It is designed for fast construction and allows for same day use. Use for fence and deck posts, new concrete construction projects, concrete overlays and repairs where a thickness of 2 inches (5 cm) or more is required. SAKRETE Fast Set can also be used successfully in cold weather projects. Open to foot traffic in approximately 3 hours. Exceeds ASTM C 387 strength requirements.

### FEATURES & BENEFITS

- Fast-setting
- Ideal for cold weather applications
- Walk-on in hours

### USES

For new concrete construction projects, concrete overlays and concrete repairs. Use to construct footings, sidewalks, slabs, step and patios, or to set deck posts, fence posts and poles.

### PROCEDURES

Mix and substrate temperatures should be maintained between 5 °C and 30 °C (40 °F and 86 °F) for at least 24 hours prior to and 48 hours after.

**Mixing:** Empty contents of bag into mortar box, wheelbarrow or mechanical mixer. When mixing by hand, form a crater for adding water. Add approximately 2.3 L (2.4 qts) of clean water per 30 KG (66 lb) bag, or enough to achieve a workable mix. Avoid a soupy mix. Excess water reduces strength and durability and can cause cracking. In cold weather, use warm water to accelerate the set. In hot weather, use cold water to slow the set.

### PROJECTS

#### CONCRETE REPAIRS - Concrete overlays, concrete repairs, etc.

**Surface Preparation:** Surfaces to be repaired must be sound and clean. Remove all delaminated or unsound concrete by chipping with a hammer and chisel or using a stiff wire brush. Clean the area to be repaired with potable water, leaving the concrete saturated but free of standing water. Some very porous concretes may require several applications of water to ensure complete saturation. For best results, apply SAKRETE Concrete Adhesive to the existing substrate before pouring.

**Placing:** After mixing the concrete, place and consolidate inside the repair area. Level concrete moving a straight-edged board in a sawing motion across concrete removing any excess and filling low areas. Allow freshly placed concrete to set or until the surface bleed water evaporates before finishing. Time will vary with weather conditions.

**Finishing:** After bleed water evaporates, finish as desired. It is recommended, especially for air-entrained concrete (i.e. SAKRETE PSI 6000), to use a wood, magnesium or aluminum float trowel for a smooth surface. For a textured surface, use a broom or brush. If the repair overlay is placed over an existing concrete joint or break, it is important to tool a joint into the soft mix over the existing joint or break. Use a jointer tool to form a joint half the depth of the repair. NOTE: Finishing cementitious materials too early, or over-working the materials can cause dusting, cracking, scaling and a weak surface.

**Curing:** See below.

#### SETTING POSTS - Setting deck posts, fence posts, poles, etc.

**Excavation:** Dig hole with auger or shovel, to required depth. Allow 2 inches (5 cm) clearance on each side of post. Brace post if necessary.

**Placing:** Position post in hole. Fill with SAKRETE Fast Set and water simultaneously, 2.3 L (2.4 qts) of water per 30 KG (66 lb) bag, until hole is full. Align the post. Use a level and check vertical position of post. When hole is full, lightly tamp or trowel top of concrete to consolidate. Smooth and slope the surface to allow water to drain away. If necessary, sprinkle a small amount of water on the surface to aid with finishing. Be sure post is aligned as required. SAKRETE Fast Set will stiffen in 30 minutes. NOTE: For deck supports, SAKRETE Fast Set must be premixed as detailed under procedures above.

**Curing:** See below.

#### NEW CONSTRUCTION - Making concrete slabs, walks, etc.

- 1. Planning:** Position layout stakes aligned with the project borders. Place corner stakes 12 inches (30 cm) outside the finished slab area. Join stakes together with string, the corners should overlap. String lines will show the planned layout and provide the height form boards are to be set at.
- 2. Excavating:** The total depth of an excavation that is approximately 5 inches (13 cm) to 6 inches (15 cm) long, should be determined by allowing for a minimum of 2 inches (5 cm) of compacted crushed stone under 3 inches (8 cm) to 4 inches (10 cm) of concrete. Excavate 6 inches (15 cm) beyond string lines to allow room for forms. Spread crushed stone evenly throughout the excavation and compact well using a portable vibrator, roller or hand tamper.
- 3. Forming:** Using straight 2 inch (5 cm) x 4 inch (10 cm) lumber, cut forms to length, then position so inside edges are below the string line. Drive pointed 2 inch (5 cm) x 4 inch (10 cm) stakes into ground at 3 ft (1 m) spacing to support forms. Screw together all forms, braces and corners from outside the work area. NOTE: Adjust forms before securing to direct rainwater run-off; slope approximately 1/8 inch (3 mm) per foot.
- 4. Curving:** Create curves by attaching 1/8 inch (3 mm) hardboard to inside corners of forms. Drive support stakes behind the curved form. Place expansion joint board against adjoining surfaces to allow independent movement. Treat the insides of the forms with a commercial release-agent or vegetable oil prior to pouring.
- 5. Placing:** After mixing the concrete, place and consolidate inside the forms, slightly overfilling and roughly leveled. Work a pointed trowel along inside edges of the forms removing trapped air pockets. Tap the forms with a hammer for smoother sides. NOTE: Mixing, placing and finishing should be timed to make sure concrete does not harden before finishing.
- 6. Leveling:** Level concrete by moving a straight-edged board, overlapping the forms, in a sawing motion, across concrete removing any excess and filling low areas. Then float the concrete smooth using a wood, magnesium or aluminum float trowel. Stop floating when bleed water accumulates on surface.
- 7. Finishing:** After bleed water evaporates, finish as desired. It is recommended, especially for air-entrained concrete (i.e. SAKRETE PSI 6000), to use a wood, magnesium or aluminum float trowel for a smooth surface. For a textured surface use a broom or brush. Use an edger tool to finish edges. NOTE: Finishing cementitious materials too early, or over-working the materials can cause dusting, cracking, scaling and a weak surface.



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- Jointing:** Stress control joints are placed to control where slabs crack, along a pre-determined path. Use either a hand jointer while the mix is soft or saw-cut 6 to 18 hours after hardening. Joints should be 1/5 of the full thickness of the slab and placed every 8 ft (2.4 m) in both directions. Adjust down for appearances (centering).
- Curing:** See below.

### COLD WEATHER APPLICATIONS

SAKRETE Fast Set can be used successfully in cold weather, providing that the following precautions are taken:

- SAKRETE Fast Set must be maintained at room temperature for 24 hours prior to use.
- Do not use if temperatures will fall below -5 °C (23 °F) within 24 hours of placing concrete.
- Clean, warm tap water should be used for mixing.
- Placed concrete must be protected from freezing for at least 24 hours after application. A blanket of insulation will assist in proper setting of concrete.

### CURING

Curing means maintaining proper moisture and temperature. Allow newly placed material to set until surface is hard to the touch. Then cover SAKRETE Fast Set concrete with plastic to prevent evaporation of mixing water. New concrete can be opened to foot traffic in approximately 3 hours.

### TECHNICAL DATA

**Initial Set:** Approximately 20-40 minutes

**Compressive Strength:**

|               |                     |
|---------------|---------------------|
| <b>1 Day</b>  | 10 MPa (1450 psi)   |
| <b>7 Day</b>  | 19 MPa (2755 psi)   |
| <b>28 Day</b> | 27.5 MPa (4000 psi) |

Exceed strength requirements of ASTM C 387 when used as directed.

### PAINTING

Concrete must be fully cured (approximately 28 days) and dry before painting. Refer to paint manufacturer directions for application instructions.

### YIELD

30 KG (66 lb) yields approximately 0.014 m<sup>3</sup> (1/2 ft<sup>3</sup>).

### FAST & EASY CALCULATIONS (bags required, approximately)

**SLAB ESTIMATOR:** # of bags required for a slab 10 cm (4") thick.

| LENGTH       | WIDTH       |             |             |              |
|--------------|-------------|-------------|-------------|--------------|
|              | 30 cm (12") | 70 cm (24") | 90 cm (36") | 120 cm (48") |
| 30 cm (12")  | 0.7         | 1.3         | 2.0         | 2.7          |
| 70 cm (24")  | 1.3         | 2.7         | 4.0         | 5.3          |
| 90 cm (36")  | 2.0         | 4.0         | 6.0         | 8.0          |
| 120 cm (48") | 2.7         | 5.3         | 8.0         | 10.7         |
| 150 cm (60") | 3.3         | 6.7         | 10.0        | 13.3         |

**POSTS:** # of bags required.

| Post Size: 10 cm (4") X 10 cm (4") |           |
|------------------------------------|-----------|
| Hole Diameter: 20 cm (8")          |           |
| Hole Depth                         | # of Bags |
| 45 cm (18")                        | 1         |
| 60 cm (24")                        | 1.25      |
| 90 cm (36")                        | 1.75      |
| 120 cm (48")                       | 2         |

**BUILDERS' TUBES:** # of bags required for each 122 cm (48") length.

| Hole Diameter | # of Bags |
|---------------|-----------|
| 15 cm (6")    | 1.5       |
| 20 cm (8")    | 3         |
| 25 cm (10")   | 4.5       |
| 30 cm (12")   | 6.5       |

**Slab Calculator (dimensions in centimetres):**

\_\_\_ Length (cm) x \_\_\_ Width (cm) x \_\_\_ Depth (cm)  
= \_\_\_ cm<sup>3</sup> ÷ 100 = \_\_\_ m<sup>3</sup> ÷ 0.014 = \_\_\_ 30 KG bags required.

**Slab Calculator (dimensions in inches):**

\_\_\_ Length (in) x \_\_\_ Width (in) x \_\_\_ Depth (in)  
= \_\_\_ in<sup>3</sup> ÷ 12 = \_\_\_ ft<sup>3</sup> x 2 = \_\_\_ 30 KG bags required.

### PACKAGING

30 KG (66 lb) bag

### UPC

055226119661

### STORAGE & SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened bags have a shelf life of 12 months.

### SAFETY PROCEDURES

**CAUSES BURNS.** Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear safety glasses, protective clothing and dust mask. Use only in a well-ventilated area.

**FIRST AID TREATMENT:** Contains cement, when wet forms a calcium hydroxide solution. If swallowed call a poison control center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for at least 15 minutes. If on skin, rinse well with water. If on clothes remove clothes. If breathed in, move person to fresh air.

### WEBSITE

For more information and other projects, visit us at [www.sakretecanada.com](http://www.sakretecanada.com) or call us at 866-725-7383.

Warranty: This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade. [REV.0006\_07/18/19]

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