FAST SETTING CONCRETE MIX

The Pro's Choice Since 1936

Sakrete® Fast Setting Concrete Mix is a preblended fast setting mixture of special cementitious materials, sand and coarse aggregate. For projects where a rapid set is needed to allow for same day use. For setting posts and poles without mixing or bracing. For slab placement where concrete thickness exceeds 2" (51 mm).

Features:

- High Strength 4,000 psi
- Full depth applications 2" (51 mm) or greater
- Ideal for structural applications requiring a small volume of concrete
- Rapid setting in approximately 1/2 hour resulting in same day use

Use For:

- Setting fence posts
- Driveways, slabs, patios, walkways
- Curbs
- Stairs
- Ramps
- Structural applications requiring a small volume of concrete

Yield/Water/Coverage:

Bag Size	Yield	Water
50 lb (22.6 kg)	0.38 ft^3 (0.01 m^3)	2.5 to 3 qts (2.4 - 2.9 L)

To determine coverage: Multiply Length (feet) x Width (feet) x Thickness (inches) and divide by 12. Then divide by the yield in the chart above to determine the numbers of bags needed. See Calculator on Sakrete.com for assistance.
Yield and water are approximate.

Post Setting - Based on Average 10" Diameter Hole:

12" (305 mm)deep	18" (457 mm) deep
1.25 bags	2 bags

24" (610 mm) deep	30" (762 mm) deep
2.5 bags	3 bags

Technical Data:

Sakrete Fast Setting Concrete Mix meets or exceeds the compressive strength requirements of ASTM C387.
Compressive Strength ASTM C39
3 days = 2,500 psi (17 MPa)
7 days = 3,500 psi (24 MPa)
28 days = 4,000 psi (28 MPa)
Slump Range = 2" - 3" (50 - 75 mm)

DIVISION 3
Structural Concrete – 03 31 00

Color:

Gray

Preparation/Application:

For best results all materials should be stored between 40°F (4°C) and 80°F (27°C) 24 hours prior to installation.

Refer to:
- ACI 302.1 Guide for Concrete Flooring and Slab Construction
- ACI 304.1 Guide for Measuring, Mixing, Transportation and Placing Concrete
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting

Post and Poles:

1. Dig hole to required depth and diameter (depth should be 1/3 the length of the post or pole and hole should be 3 times the diameter of the pole or post width). Place 4" to 6" (102 mm to 152 mm) of gravel as a base and compact.
2. Place the post or pole in the center of the hole and onto the gravel base.
3. Level and support post or pole in place.
4. Fill hole 1/3 full of water.
5. Then add Concrete directly from bag.
6. If surface is dry add more water. Excess surface water is not a problem.
7. Re-check the level of the post.
8. Slope top of mix to allow water to drain away.

Flatwork (Slabs, sidewalks, walkways, etc.):

CAUTION: Do not mix more than can be placed and troweled in 15 minutes.
1. Stake out the area where the concrete will be placed.
2. Cut and remove all soil, grass, sod, etc.
3. For improved drainage place several inches of gravel into the excavated area. Remember to allow enough depth for both the gravel and a minimum of 4" (102 mm) of concrete.
4. Place forms in the desired area assuring that they are level, square, and all corners sealed so no premixed material can escape once placed.
5. Place the concrete into the forms to full depth.
6. Consolidate by moving into corners and low areas to assure there are no voids.
7. Using a straight edge (a 2 x 4 works well) level the surface of the concrete using a back and forth sawing motion.
8. Using a float or trowel smooth the surface to remove imperfections. This is not a final trowel finish, so complete this quickly. Too much troweling at this point will cause dusting and weaken the surface.
9. Using a concrete grooving tool, cut joints into the concrete every 3 - 4 ft (.9 - 1.2 m). Expansion joints should be placed every 8 ft x 12 ft (2.4 x 3.7 m) in each direction and must extend through the entire depth of the slab.
10. Once the concrete has stiffened slightly and all water has evaporated from the surface use the trowel to put a smooth level surface on the concrete. Applying a light broom finish will aid with traction and remove any imperfections left from the trowel.
11. Forms can be removed the following day.

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Repairs (greater than 2" (51 mm) in depth):

1. Surfaces to be repaired must be sound, dimensionally stable, and clean.
2. Slick or sealed surfaces must be thoroughly roughened to an ICRI CSP of 3 to 5.
3. Sides of repair area must be squared off.
4. Clean all reinforcing steel to bare white metal and coat with a rust preventative if not covering within 8 hours.
5. All surfaces that will come in contact with the concrete mix should be brought to a SSD (Surface Saturated Dry condition) before application of the material.
6. Clean and remove all loose materials and debris before proceeding
7. Place the mixed concrete mix into the area that is being repaired.
8. Use a float to remove any surface imperfections.

Mixing:

1. **Mix only the amount of material that can be placed within 15 minutes.**
2. Empty contents of Sakrete Fast Setting Concrete into a wheel barrel or mortar pan forming a crater in the center of the dry mix for the addition of clean potable water (refer to chart above for water amount). Mix with a shovel or hoe until all the material is mixed to a uniform consistency. Projects requiring multiple bags are mixed much easier with a mechanical concrete mixer.
3. Add enough clean potable water to achieve a workable mix. Add additional water if needed but AVOID A SOUPY MIX. Excess water reduces strength and durability and can cause cracking, dusting or scaling.

Curing: (Required only for flat work)

1. Proper curing is critical for sound results. Curing means maintaining proper moisture and temperature. The concrete must be kept continuously moist for several days.
2. Covering the concrete slab with plastic is a practical way to help retain moisture. Place plastic after concrete has set.
3. If surface begins to appear dry remove the plastic moisten the surface and replace the plastic.
4. New concrete can be opened to foot traffic in 6 hours and vehicular traffic in 48 hours.

Precautions:

Air, mix and substrate temperatures should be between 40°F (4°C) and 90°F (32°C) with no rain in the forecast within 24 hours of application. For applications outside this range of temperatures and conditions, contact Sakrete Technical Service.

- Colder temperatures or higher humidity conditions will retard set times
- Use only clean mixing container and tools
- Do not over trowel
- Do not overwater
- Protect from freezing for 48 hours

NOTE: Proper application and installation of all Sakrete products are the responsibility of the end user.

Safety:

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product. WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA). KEEP OUT OF REACH OF CHILDREN.

Limited Product Warranty:

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the dates the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

For current and complete product information, contact SAKRETE Technical Services toll-free at 866-725-7383 or visit Sakrete.com.