



# BOLT & RAIL ANCHOR CEMENT



Sakrete® Anchor Cement is a mixture of cement, sand and special additives. For the rapid setting of bolts, railings and machinery into concrete, brick or stone. Special need or structural applications where safety is a concern should be designed and approved by a licensed engineer. Metals such as aluminum that will corrode when exposed to wet cement must be protected.

## Features:

- Sets in 30 minutes to a super tight grip

## Use For:

- Anchoring bolts and railings
- General purpose grout material

## Yield/Coverage/Water:

Container Size	Yield	Water
10 lb (4.5 kg)	.09 ft <sup>3</sup> (.002 m <sup>3</sup> )	1 qt (0.9 L)
20 lb (9 kg)	.18 ft <sup>3</sup> (.005 m <sup>3</sup> )	2 qt (1.9 L)
50 lb (22.7 kg)	.45 ft <sup>3</sup> (.012 m <sup>3</sup> )	4.5 qt (4.3 L)

NOTE: 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.

## Technical Data:

### Compressive Strength

ASTM C109

2 hours	2,000 psi (14 MPa)
7 day	4,000 psi (28 MPa)
28 day	6,000 psi (41 MPa)

### Set Time

ASTM C191

20 minutes

### Pull-out Strength

ASTM C900

- 1" (25 mm) bolt 14,000 lb total load
- 3/4" (19 mm) bolt 10,000 lb total load

## Color:

Gray

## Preparation/Application:

1. Use only when the product, air, and surface temperature are above 50°F (10°C) for a minimum of 24 hours.
2. The concrete or masonry unit to receive the anchor must be sound and capable of supporting the fixtures (minimum 3,000 psi 20.7 MPa).
3. Ensure that the hole is wide enough and deep enough to provide proper support. Diameter of hole should be 3 to 4 times the diameter of the fixture being placed and the depth of the hole must be 8 to 12 times the fixtures diameter.
4. In no case should the hole be less than 2" (51 mm) deep and 2" (51 mm) wide. A minimum clearance of 1" (25 mm) is required around the fixture being anchored and 4" (102 mm) from the edge of the slab.
5. Remove all unsound concrete and any other foreign materials that will inhibit performance.
6. Flood the hole with clean potable water and then removed all standing water leaving the hole damp. The surface should be brought to a saturated surface dry condition (SSD).
7. Outer edges of the substrate must be reinforced with coated rebar.

## Mixing:

1. Do not mix more material than can be placed in 10 minutes.
2. If mixing less than a full container, mix 4 parts Anchor Cement with 1 part water.
3. Pour Anchor Cement into hole. If product is used to anchor an exterior railing, mound the material slightly so that rain water can not pool at the base of the railing.

## Curing:

No special curing required.

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.