



# SURFACE BONDING CEMENT

◆ The Pro's Choice Since 1936



Sakrete Surface Bonding Cement is a fiber reinforced portland cement based coating for concrete block and masonry walls. It can be used to build block walls without mortar joints as well as to decorate and damp proof existing block walls.

## Features:

- High Strength >5000 psi
- Decorative Water Resistant Concrete & Masonry Coating
- Fiber reinforced to reduce shrinkage cracking
- Labor saving compared to conventional masonry construction
- Paintable

## Use For:

- Building dry stack block walls without mortar
- Damp proof coating for basement and foundation walls
- Masonry parge or finish coating
- Interior or exterior
- Scratch and brown coat

## Yield/Water/Coverage:

Bag Size	Yield/Coverage	Water
50 lb (22.6 kg)	Covers 35 - 40 ft <sup>2</sup> (3.25 – 3.7 m <sup>2</sup> ) at 1/8" (3.2 mm) thick	5.0 to 6.0 qts (4.7 - 5.7 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 additional assistance. Yield and water are approximate.

## Technical Data:

Compressive Strength ASTM C 109  
28 days = 5,000 psi (34.5 MPa)

## COLOR:

Gray

## Preparation/Application:

For best results all materials should be stored between 40°F (4°C) and 90°F (32°C) 24 hours prior to installation.

Refer to:

- International Masonry Industry All-Weather Council (IMIAC)
  - Recommended Practices and Guild Specifications for Cold Weather Masonry Construction
  - Recommended Practices and Guide Specifications for Hot Weather Masonry Construction

- Installations must follow local building code requirements for block wall installations.
- Expansion joints must be specified and incorporated into the block wall construction as specified and or by following the local building code requirements.

## Existing Masonry Walls:

1. Air, Mix and substrate temperatures should be a minimum of 40°F (4°C) and remain above freezing for 24 hours.
2. Clean area and remove all unsound concrete, grease, oil, paint, efflorescence, and any other foreign materials that will inhibit performance.
3. Slick and sealed surfaces must be thoroughly roughened.
4. If cracks exist, chip out and enlarge to approximately ½ inch deep and repair using Sakrete Surface Bonding Cement prior to coating the entire wall.
5. Apply Sakrete Surface Bonding Cement only after repairs are made and substrate is restored to a sound condition.
6. Dampen surface before applying Surface Bonding Cement.

## Dry Stack Walls:

When Surface Bonding Cement is applied to both sides of a block wall the strength is considerably stronger than when building a traditional mortared joint wall. This technique is best used when building a dividing wall or any wall that will not contain doors or windows. The spacing for almost all traditional walls requires a 3/8" (10 mm) mortar joint. If Surface Bonding Cement is used in a structural application, consult local building codes. Air, Mix and substrate temperatures should be a minimum of 40°F (4°C) and remain above freezing for 24 hours.

1. When laying a new block wall first construct a sound footing below the frost line.
2. Level the first course of block in a full bed of mortar.
3. Stack the remaining courses of block without mortar from corners in a running bond pattern.
4. Butt the blocks together.
5. Use galvanized brick ties as shims when necessary for leveling while stacking.
6. Fill gaps larger than 1/4" (6 mm) with Sakrete Surface Bonding Cement prior to coating the wall.
7. Dampen surface before applying Surface Bonding Cement.
8. Apply material a minimum of 1/8" (3.2 mm) to 1/2" (13 mm) thick.
9. For dry stack applications, material MUST BE APPLIED TO BOTH SIDES OF THE BLOCK WALL.

## Scratch/Brown/Stucco:

1. Application over masonry must follow ASTM C 926 Standard Specification for Application of Portland Cement Based Plaster.
2. Applications over lath must follow ASTM C 1063 Standard Specification for Installation of Lathing and Furring to receive interior and exterior portland cement based plaster.
3. Apply material using a trowel using enough pressure to compact the material.
4. Texture stucco to match the surrounding area using a plasterer's trowel or finish to desired texture.

NOTE: Check with local building code requirements for proper installation guidelines.



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## **Mixing:**

1. Empty contents into a mortar box, wheelbarrow or mechanical mixer
2. Add clean potable water (see table above for water amounts) enough to achieve a workable mix. A SOUPY MIX MUST BE AVOIDED.
3. The easiest means of mixing is with a 1/2" (13 mm) drill and a mixing paddle. Add most of the water to a 5 gal (19 L) pail.
4. Mix for 2 minutes. Add additional water as needed and remix.
5. Can be colored by adding Sakrete Cement Color while mixing. Add amount needed to mix water before adding dry material to achieve desired color.
6. Under hot, dry, windy conditions, replacing part of the mix water with up to 1/2 gal (1.9 L) of Sakrete Bonder & Fortifier will promote curing and improve bond.

## **Curing:**

In hot or windy conditions lightly spray the wall with water as needed to promote adequate curing.

## **Can be painted:**

Using an alkali resistant lime proof paint usually after 7 days of the stucco application provided the masonry is dry. Contact paint manufacturer for application recommendations.

## **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
- Do not apply over painted or frozen substrates
- Use only clean mixing container and tools
- Do not over trowel or over water
- Do not use in chimneys, kilns, or areas with high temperatures
- Do not add any materials other than clean potable water or Sakrete Bonder and Fortifier. See Technical Data Sheet for mixing instructions.
- 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.

