

SILPRO

FSB FIBERGLASS SURFACE®
BONDING CEMENT

Use On Dry-Stacked Concrete Block
Base Coat for California Stucco
Protects Masonry and Rigid Insulation Board
Integral Waterproofing Agent
Polymer-Modified
1/8" – 3/4"

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Silpro FSB Fiberglass Surface Bonding Cement® is a polymer-modified, Portland cement-based, trowel-applied high performance surface bonding cement containing sized aggregates, fiberglass reinforcing fibers, and an integral waterproofing agent.

ADVANTAGES

- Dry-stacked block construction eliminates the need for mortar joints saving construction time and labor cost
- Fiber reinforced for bridging cracks and improving flexural and tensile strengths
- Waterproofs and protects surfaces
- Polymer-modified
- Portland cement-based
- Protects rigid insulation board
- Use above or below grade
- Provides a base for decorative coatings

USES

Use FSB™ over dry-stacked concrete block to produce a wall stronger and more waterproof than one laid with conventional mortar joints for load and non-load-bearing walls, panels, patio walls, and retaining walls.

Use it over an existing brick or block wall to bridge the cracks and fill the joints, producing a flat, waterproof base coat for Silpro California Stucco™, Concrete Finish™, or Seal Cote®.

Use FSB™ over rigid insulation board to protect it from UV light, abrasion, and insects, and to provide a suitable base for decorative coatings.

Use FSB™ to seal, bind together, and protect chimneys, retaining walls, foundations, and basement walls.

DRY STACK THE BLOCK

1. Set the first course of block in a bed of mortar so that the wall will start level and plumb.
2. When dry stacking concrete blocks, scrape the blocks across each other to remove any burrs or irregularities.
3. For maximum strength always stack block in a running bond pattern.
4. Blocks should be laid top-to-top and bottom-to-bottom (inverted on alternate rows as necessary) to keep the wall plumb.

SURFACE PREPARATION

Over masonry: All surfaces to be coated must be structurally sound. Clean all surfaces with high pressure water sufficient to remove dirt, debris, paints, oils, friable materials, and all other contaminants that would prevent proper bond, but do not damage the wall surface. If used, acid-based cleaning solutions must be completely neutralized.

SURFACE PREPARATION (CONT.)

Over rigid insulation board: Scarify the surface of the extruded insulation board with a wire bristle brush. Mix Silpro Masco™ with straight Silpro C-21 All Acrylic® Admix and trowel on a thin layer over the joints where the insulation boards meet. Embed fiberglass mesh tape into the Masco™ mixture (like embedding tape into joint compound on drywall). Go over the embedded tape with a thin layer of the Masco™ mixture. Allow the taped joints to harden before applying FSB™ over the entire surface.

MIXING

Mixing Solution Proportions

Over dry-stacked block, or clean, unpainted block laid in mortar: Mix each 50# bag of FSB™ with 5-6 quarts of clean, potable water to achieve a creamy, mortar-like consistency.

Over brick, stone, or poured concrete: Pre-mix equal volumes of Silpro C-21 All Acrylic® Admix and clean, potable water. Mix each 50# bag of FSB™ with 5-6 quarts of this mixing liquid.

Over rigid insulation board: Mix each 50# bag of FSB with 5-6 quarts of straight C-21 All Acrylic® Admix. Do not use any water.

Mixing Procedures

In a clean container: Place 5-6 quarts of mixing liquid for every 50# bag of FSB. Using a slow speed (450-650 rpm) drill and a plaster-type mud paddle, slowly add the FSB™ to the mixing solution, mixing thoroughly for 2-3 minutes. Allow the mixture to stand for 3-5 minutes, then re-mix, adding a small amount of liquid if necessary.

If a mortar mixer is used, it should have clean rubber blades that are in contact with the mixer walls. Add a minimum of 2 bags of FSB™ at a time to the mixing liquid. Mix per directions above. Do not mix for more than 3 minutes or fiber integrity can be affected.

In a mortar pan with a hoe: Place some of the mixing liquid into the pan, add the FSB™ powder, add the rest of the mixing liquid, and mix to a lump free, trowelable consistency. Allow the mixture to stand for 3-5 minutes and then remix for 1 to 2 minutes.

APPLYING

To dry-stacked block: Uniformly dampen the block with a mixture of Silpro C-21 All Acrylic® mixed 1:1 by volume with clean, potable water. Do not allow the block to dry out before applying the FSB™.

Using a flat, steel trowel, pinch a thin coat of FSB™ into the dampened block. Immediately double back and apply FSB™ to its finished thickness. Apply FSB™ to both sides of the dampened wall to a minimum thickness of 1/8".

For Customer Service, Call Silpro at 1-800-343-1501

APPLYING (CONT.)

To masonry and concrete: Uniformly dampen the surface to be coated with a mixture of **Silpro C-21 All Acrylic®** mixed 1:1 by volume with clean, potable water. Do not allow the surface to dry out before applying the **FSB™**.

Using a flat, steel trowel, pinch a thin coat of **FSB™** into the dampened masonry or concrete. Immediately double back and apply **FSB™** to its finished thickness. Apply **FSB™** to a maximum thickness of 3/4" per lift.

If removal of the tooled joint is required, allow the first coat of **FSB™** to dry. Uniformly dampen the surface to be coated with a mixture of **Silpro C-21 All Acrylic®** mixed 1:1 by volume with clean, potable water, and then apply a second coat of **FSB™** per the directions above.

To rigid insulation board: Using a flat, steel trowel pinch a thin coat of **FSB™** into the insulation board. Immediately double back and apply **FSB™** to its finished thickness (not less than 1/8").

Clean Up: Clean all tools with water before the **FSB** hardens. If the **FSB™** does harden on tools it must be mechanically removed.

CURING

Damp curing is usually not necessary if **C-21 All Acrylic®** has been used in the mix. If **C-21™** has not been used, or if there are extreme drying conditions such as temperatures over 90° F., wind, or direct sun exposure, mist the wall and then keep it damp for 24 hours to insure proper cure.

PACKAGE SIZE

50# bag

APPROXIMATE COVERAGE

Per 50# bag: 45 square feet or 25 blocks both sides at 1/8" thick

SHELF LIFE

2 Years

LIMITATIONS

- To confirm the suitability of the surface for adhesion of the coating, and that the final appearance and function will be as the owner, architect, and contractor expect, install a 10' x 10' test patch at the maximum designed thickness anticipated on the project and subject it to anticipated service conditions before beginning the entire job.
- **FSB™** should be applied only when the temperature of the air, surface, and material is above 50°F. (10°C.) and will not fall below that for 24 hours after application. If **C-21 All Acrylic®** has been used in the mix, temperature should not fall below 50°F. (10°C.) for 48 hours. Then keep the newly installed **FSB™** coating above 32°F. (0°C.) for 7 days.
- Do not apply to frozen surfaces.
- Do not add set-accelerating admixtures.
- Do not apply if wall temperature is over 90°F.

CAUTION!

SILPRO offers products that may contain cement, latex, epoxy, and other chemicals. Please review the Safety Data Sheet before the use of this product.

LIMITATIONS (CONT.)

- Protect the **FSB™** coating from strong winds and/or direct sun during placement and finishing. It is best to work ahead of the sun whenever possible.
- Protect from rain for at least 24 hours.
- All control and expansion joints must be carried through the **FSB™**.
- Do not install over plywood.
- Do not add color (pigments) to the mix. Any good quality paint or stain that can be used on concrete can be used to coat **FSB™**.
- Store in a cool dry place. Keep out of direct sunlight.

WARNING!

Contains free silica. Do not breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz).

CAS #14808-60-7 CAS #7631-86-9

GUARANTEE

Silpro, LLC guarantees that their products are made of the finest raw materials under exacting care to produce products of the highest quality and will perform as stated when used in accordance with the manufacturer's printed instructions.

Improper mixing, incorrect application or other factors beyond the control of the manufacturer may produce unsatisfactory results and cannot be held to be the manufacturer's responsibility. Silpro accepts no responsibility beyond the purchase price of the Silpro product used.

For further product information on **FSB™** consult your local dealer or call Silpro, LLC at: **800-343-1501; 978-772-4444; FAX 978-772-7456.**

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