

# 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" - 3/8"

SILPRO CORPORATION / 2 NEW ENGLAND WAY / AYER, MA 01432-1514 / 800-343-1501 / 978-772-4444 / FAX 978-772-7456 / WWW.SILPRO.COM

**Silpro FSB™** 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 3/8" 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

1 Year

## 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.

## 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.

## CAUTION!

Irritating to eyes and skin. Contains Portland cement. Product is alkaline upon contact with water. During mixing or application avoid contact with eyes. In case of such contact, flood eyes repeatedly with water for 15 minutes and CALL PHYSICIAN. DO NOT RUB EYES. Avoid breathing dust. Avoid prolonged contact with skin. Use of gloves is recommended. Wash hands thoroughly after handling and before smoking or eating.

**See Material Safety Data Sheet for detailed information.**

Use adequate ventilation. The use of a NIOSH/MSA approved dust respirator, safety goggles, and protective gloves is recommended.

**FOR COMMERCIAL USE ONLY.  
NOT FOR INTERNAL CONSUMPTION.  
KEEP OUT OF REACH OF CHILDREN.**

Dispose of in accordance with local, state, and federal regulations.

In case of a medical emergency or for information regarding spillage clean up or disposal call INFOTRAC: 800-535-5053.

## 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 Corporation 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 Corporation at: **800-343-1501; 978-772-4444; FAX 978-772-7456.**

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Made in the USA 12/03