



Fiber-47[™]

Description:

- A. Factory blend of portland cement, lime, fibers, and proprietary additives designed for scratch and brown coats for stucco assemblies complying with ASTM C 926.
- B. Available in concentrate and sanded versions.
- C. In the concentrate version, specified sand (conforming to ASTM C 897) is added at jobsite.
- D. Fiber-47 meets code requirements (Chapter 25 UBC, Chapter 25 IBC, Chapter 7 IRC and ASTM C 926).
- E. Color: Gray.

Uses:

- A. Fiber-47 can be applied over properly prepared masonry and concrete substrates, and code-conforming lath assemblies.
- B. Can be finished with integrally colored El Rey Premium Stucco or Perma-Flex[®] Acrylic Stucco Finish.

Available Upgrades and Finishes:

- A. Stucco Enhancer
- B. KrakMaster[™]
- C. Superior Bond 100
- D. Premium Stucco Finish
- E. Perma-Flex 400 Conditioner (w/Perma-Flex finish only)
- F. Colored Primer
- G. Perma-Flex Acrylic Finish

Composition:

- A. Binder: Portland cement.
- B. Reinforcement: Fibers. Add specified sand (ASTM C 897) at job site (Fiber-47 Concentrate only).

Physical Properties:

- A. Meets code criteria for exterior portland cement plaster basecoats (or scratch and brown coats).

Coverage:

- A. Fiber-47 Concentrate w/250 lbs. to 400 lbs. (113.4 – 181.4kg) sand added per bag: 130 sq. ft. – 170 sq. ft. (12.0 – 15.7m²) @ 3/8 inch (10mm) thickness.
- B. Fiber-47 Sanded: 25 sq. ft. – 30 sq. ft. (2.3 – 2.7 m²) @ 3/8 inch (10mm) thickness.

Packaging/Storage:

- A. 90lb. (40.9kg) net weight in a multi-wall bag (Fiber-47 Concentrate).
- B. 80lb. (36.3kg) net weight in a multi-wall bag (Fiber-47 Sanded).
- C. Store off the ground and protect from the weather. One year shelf life.

Working Time:

30 to 45 minutes after mixing, depending upon conditions.

Job Procedure

A. Preparation:

1. Wood-based sheathing should be gapped 1/8 inch (3mm) at all edges to accommodate thermal expansion and contraction.
2. On framed substrates cover exterior grade wood-based or exterior grade gypsum based sheathings with two layers of a minimum of a grade "D" asphalt-saturated Kraft paper. All other sheathed substrates require one layer of a minimum Grade "D" asphalt-saturated Kraft paper. For applications over foam plastic insulation board, one layer of paper may be used, having a "60 minute" rating. Please see Reference Standards Summary. Also conform to all local codes and agencies having jurisdiction. Fiber-47 requires weather barriers installed and flashed in accordance with the building code and to form a water-shedding surface.
3. Lath shall be installed in accordance with ASTM C 1063. Metal lath shall be free of rust, oil, or other foreign matter.
4. On masonry, apply only to surfaces that are sound, clean, unpainted, and free of any residue which may affect the ability of Fiber-47 to bond to the surface. Solid bases shall have sufficient suction (ability to absorb water) or surface roughness or both to ensure an adequate bond for Fiber-47. Solid surfaces not meeting these requirements may require El Rey Superior Bond 100. Call El Rey for details.
5. Form ties or other obstructions and projecting joint mortar shall be removed or trimmed back flush with the substrate surface.
6. Do not apply to substrates which are frozen or contain frost or ice.
7. Apply to surface prepared as for portland cement plaster.
8. El Rey recommends the use of control joints with Fiber-47. Placement of the control and expansion joints is the responsibility of the design professional.

B. Mixing Instructions:

1. **Fiber-47 Concentrate:** Add to plaster mixer 6-1/2 to 8 gallons (24.6 – 30.3 liters) of mixing water for each 90-pound (40.9kg) bag of Fiber-47 concentrate to be mixed in a batch. Mixing water shall be cool at a uniform temperature above 40°F/5°C. Maintain same water parameters for all batches.
2. Add to mixer 100 to 150 lbs. (45- 68kg) of clean plaster sand equal to approx. 1-2/3 to 2-1/2 5-gallon (18.9 liter) pails of damp sand for each bag of Fiber-47 concentrate to be mixed. Plaster sand shall be clean, graded and conform to ASTM C 897.

3. Add Fiber-47 concentrate to the mixer followed by remainder of required sand for the batch size, that is, 200 to 250 lbs. (90.7 – 113.4kg) of additional sand (equal to approx. 3-1/3 to 4 - 5 gallon or 18.9 liter pails of damp sand) for each bag in the batch. Mix for 3 to 5 minutes until mortar-like consistency is achieved.
4. Stop mixer and allow to slake for 8 minutes. Briefly remix before use (approximately 2 minutes). No unapproved additives of any kind should be added under any circumstances.

Sand Type shall be graded in accordance with ASTM C 144, ASTM C 897, within the following limits:

Sand Type (U.S. Standard Sieve)	% Weight Retained (Cumulative)+/- 2%
No. 4	0
No. 8	0-10
No. 16	10-40
No. 30	30-65
No. 50	70-90
No. 100	95-100

1. **Fiber-47 Sanded:** Add to plaster mixer 2-1/2 gallons (9.5 liters) of mixing water for each 80-pound (36.3kg) bag of Fiber-47 Sanded to be mixed in a batch. Mixing water shall be cool at a uniform temperature above 40°F/5°C. Maintain same water parameters for all batches.
2. Add Fiber-47 Sanded to the mixer. Mix for 3 to 5 minutes until mortar-like consistency is achieved.
3. Stop mixer and allow to slake for 8 minutes. Briefly remix before use (approximately 2 minutes). No unapproved additives of any kind should be added under any circumstances.

NOTE: If Fiber-47 is acrylic polymer modified and El Rey® Premium Stucco Finish is used, then the Premium Stucco Finish must be acrylic modified as well. No unapproved additives are allowed.

C. Application:

1. Apply Fiber-47 scratch coat by pump or hand trowel to an approximate thickness of 3/8 in. (10mm) per coat. Surface of the first or scratch coat shall be crossraked or scratched, usually horizontal, to form a mechanical key for succeeding second or brown coat.
2. Apply Fiber-47 brown coat by pump or hand trowel to 3/8 inch (10mm) minimum thickness. Darby, then rod brown coat to a true and even plane to provide a total scratch and brown thickness of 3/4 inch (19mm) when specified. Float brown coat with a wood float to provide a rough surface for an integrally colored cement based finish. Trowel brown coat smooth for acrylic finish. Finish to specified tolerances.
3. Interrupt or discontinue Fiber-47 application only at junctions of wall planes, openings or

control joints to avoid cold joints and abrupt changes in the uniform appearance of succeeding coats.

4. Fiber-47 must be moist cured for the first 48 hours after application; depending on the environmental conditions it may be necessary to moist cure 4 or 5 times a day. Moist cure by uniformly spraying clean water on the wall to sufficiently saturate the Fiber-47. There should be no visible water on the surface when a succeeding coat is applied. To improve the bond between the coats and reduce rapid water loss, the brown coat may be applied as soon as the scratch coat is sufficiently rigid to resist cracking from the pressure of the brown coat application and leveling process (per IBC 2003, Section 2512.8, "The second coat is permitted to be applied as soon as the first coat has attained sufficiently rigidity to receive the second coat."). Fiber-47 application shall be in compliance with requirements of applicable codes, regulations and agencies having jurisdiction.

Optional Upgrade: Embed KRAK-MASTER™ mesh into the rodged, wet brown coat. Float the surface to ensure mesh is uniformly embedded, to promote densification of the coat and to provide a surface receptive to bonding of the finish coat.

Limitations:

1. Fiber-47 shall not be applied when temperatures fall below 40°F within 48 hours during and following application.
2. Fiber-47 should not be applied if ambient temperature exceeds 120°F (49°C) within 24 hours of application.
3. See packaging for handling precautions and product storage.
4. Always wear proper safety equipment, including particle mask, eye protection and gloves when mixing and/or applying this product.

Caution: Protect plaster from uneven curing or excessive evaporation or freezing 48 hours after application, or discoloration, streaking and/or evaporation may occur.

Job Name _____

Contractor _____

Date _____

Submittal Approvals: _____

Stamps or Signatures _____

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