

Description

A formulated lime binder (FL A3.5 – EN 459) essentially composed of high-grade lime, natural hydraulic lime (>70%) and specific pozzolans formulated with expertise to ensure batch-to-batch consistency, optimal workability, and slag resistance. When mixed to ratio with sand and water, PRIMA is used as a stucco scratch and brown (levelling) coat over metal lath and masonry, including strawbale, adobe and hempcrete. PRIMA is also the binder of choice for cast-in-place or sprayed hemp lime and other plant-based aggregates.

Technical Data

Density (volumetric weight): 0.6 kg.

Flexural Strength (7 days): 1.2 N / mm²

Flexural Strength (28 days): 2.4 N / mm²

Compressive Strength (7 days): 3.45 N / mm²

Compressive Strength (28 days): 7.7 N / mm²

Packaging: 48.5 lbs. (22kg) compostable sac.

Shelf Life

Approximately 12 months when stored off the ground in normal conditions and original package.

Coverage

Depending on substrate condition, thickness of application, and sand ratio.

- **Metal Lath:** Average 66 ft² per sac.
- Hemp, adobe, rammed earth, natural stone: Average 88 ft² per sac.
- **Masonry:** Average 66 ft² per sac.
- **Hemp Binder:** Spray Technique = 4 ft² per sac.
- In Situ Technique = 3 ft² per sac.

Aggregate

Sand forms the void structure of the material promoting an adequate vapor exchange and consequently regulating the accumulation of condensation in the structure. Sharp, washed,

Aggregate Ratios

Metal Lath:

Scratch (1:2): 2 pails lime to 4 pails dry sand. Brown (1:3): 2 pails lime to 6 pails dry sand.

Masonry:

Scratch & Brown (1:4): 2 pails lime to 8 pails dry sand.

Hemp Binder:

Spray: 9 sacs / yd³ hemp shiv . In Situ: 11 sacs / yd³ hemp shiv.

Substrate

- Masonry must show sufficient suction and roughness to provide a proper mechanical bond.
- Concrete and masonry substrate must be clean, dry, and free of residue, frost, and ice.
- Lath work shall be completed according to ASTM C 1063. Wood sheathing is typically protected by a moisture resistant barrier.
- Saturate concrete and masonry substrates with water a day before the scheduled installation in warm conditions.
- Prepare all wooden substrates as for Portland cement stucco.

Application

- Hand-applied or machine applied.
- Level the surface following the application. Horizontally scratch the first coat to create a key for the following coat.
- Allow to cure 5-7 days before applying a subsequent coat.

Cautions

- PRIMA will produce maximum performance and workability when adequate tools are used, and mixing directions are carefully respected.
- Working Temperatures must not exceed 95° F and must be above 40°F.
- Protect from direct sunlight, wind, and rain
- Wear a particle mask, eye and hand protection when mixing.
- Ensure a consistent mixing ratio between batches throughout the project.

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