

**Description:** Minera is a natural mineral artisan plaster essentially composed of hydrated lime, specific hydraulic binders, and fine aggregates (18/400) - all factory-pre-mixed. It may be trowel or machine applied over a wide array of substrates. Far less prone to cracking than cement plasters, Minera is an ideal alternative to achieve hard-trowel, smooth exterior finishes. It is appreciated for its workability and resistance to impacts, abrasion, and thermal shocks.

### Advantages:

- Interior & exterior
- Water vapor permeable
- Healthy (VOC free)
- Mildew & mold resistant
- Low maintenance
- Color fade-resistant
- Impact & abrasion resistant

**Packaging:** Available in 55lb. (25kg) bags.

**Storage:** Approximately 12 months when stored under cool, dry conditions in the original package.

**Coverage:** The average coverage per pail is 1.5 kg/ m<sup>2</sup> per mm of thickness. On average a bag will yield between 80 to 90 ft<sup>2</sup>, depending on method application.

**Technical Feature:** MINERA is a natural MINERAL material recommended from a green building point of view as it clearly shows good absorption and diffusion qualities.

### Physical Data:

Bulk Dry Density: ≤ 1,65 kg/dm<sup>3</sup>

PH: 12

Dynamic Elasticity: ≤ 6500 MPa

Flexion: > 2.5 kg/cm<sup>2</sup>

Vapor Diffusion: 15 gr/m<sup>2</sup>/H mm Hg

Impermeability: 50 gr/m<sup>2</sup>/H

Mesh Sand: 18/400 (0 – 1 mm)

**Preparation:** The substrate must be clean, dry, and free of dust, frost, grease, oil and other substance that could weaken effecting bonding. At least one worker per scaffold level required for simultaneous, uniform working. In time of warm, windy, or dry days, the substrate shall be damped a few hours before the application. In case of very absorbing surfaces, it is recommended that the substrate be saturated with water a day before the application.

**Colors:** 216 standard colors made of natural mineral pigments. Color matching is also available upon request.

### Mixing Procedure:

1. Using a mechanical mixer, dry-mix MINERA thoroughly for 1-2 minutes with the required pigments.
2. Mix one 55lb. bag with 1.5 gallons of clean water to a smooth consistency.
3. Ensure a constant 1: 5 ratio throughout all batches (20% water).
4. Let set for 15 minutes and briefly break the set before application.
5. Only add controlled amounts of water if necessary and briefly mix to a suitable consistency.

### Application:

MINERA is typically applied with a double-up method. Start with a "tight scratch" to even suction and potential imperfections in the base coat. Let dry to touch so that a finger pressed longer leaves a mark. Apply the second coat to the depth necessary to give a true even surface and finish to desired effect:

- ▶ **Marble:** Compact the surface to desired sheen.
- ▶ **Fossil:** Trowel lightly after moisture leaves surface.
- ▶ **Sandstone:** Soften the compacted surface with a moist/dry sponge.
- ▶ **Tadelakt:** For showers and other wet area, spay black soap uniformly prior to polishing the surface.

### Cautions:

- ▶ MINERA will produce maximum performance and workability when adequate tools are used and mixing directions are carefully respected.
- ▶ Do not apply the material if the temperature is below 45 °F (5 °C) or higher than 86 °F (30 °C). All exterior scaffolds must be netted at all times to ensure color and texture consistency.
- ▶ Colors may vary due to conditions and method application. A mock-up is highly recommended.
- ▶ Wear particle mask and eye and hand protection when mixing.
- ▶ Ensure a consistent mixing ratio between batches and throughout the execution of the project.
- ▶ Dampen the base coat several hours prior and avoid excessive toweling.
- ▶ Penetrating sealers and waxes ease wash ability in high-traffic areas (apply after 7 to 10 days).