

deGruchy's

LIME



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Makers of

ecologic®

Brand
Mortar & Plaster
For Historic Restoration
and Green Building

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Ecologic™ TopCoat SCG Fine (F)

Ecologic™ TopCoat, is a prepared blend of binder/aggregate/pigments to which you just add water, mix and go to work. Use it on historic buildings to stucco, parge and plaster. Ecologic™ TopCoat can also be used on modern construction. Ecologic™ TopCoat is a "Green" Product and the result is an "Old World" Lime finish that is chemically and physically suitable as a replacement material for historic structures. It is as simple as mixing the mortar with water using a high torque industrial electric drill and a rigid paddle attachment in five-gallon pail or using a mason's paddle-style mortar mixer. The bag weight is 38.5 pounds. Ecologic™ TopCoat Fine (F) is recommended for interior/exterior applications such as Plaster/Stucco/Render finish coats and parge coats. Suitable substrates for Ecologic™ TopCoat Fine (F) include; Ecologic™ TopCoat (G) Ecologic™ TakCoat, brick, stone, block, and concrete. *If substrate is smooth and offers no mechanical keys, Ecologic™ TakCoat Platinum can be used as a transition coat.*

Benefits

The advantage of the pre-blended material with sand already added is that the quality control of the mix design is already completed. The mixing can take place on each level of scaffold, if suitable conditions allow using the drill and paddle mixing method, with no excess sand piles or other bags of material stored on site. Ecologic™ pre-blended TopCoat is all you need. Having all the materials in one bag reduces the temptation to add Portland cement, which is customary when a typical type N mortar is made with local hydrated lime. The pre-blended material ensures that the engineering of the basecoat's final properties is kept in a high quality control environment with the right sand for consistent color and results.

NO Portland Cement is present in Ecologic™ TopCoat yet the stock material will still reach the required 750 p.s.i. required for a type N mortar while maintaining the high permeability required for renders on and

repair to historic structures originally built with lime based material. Due to the lack of Portland cement, Ecologic™ TopCoat is immune to sulfates and salts. The alkali-silica reaction does not take pace with St. Astier's Natural Hydraulic Limes.

Eco-friendly Characteristics:

- High vapor exchange qualities
- 80% less carbon emissions than the Portland cement alternative
- Re-absorption of CO₂ in curing
- Will not deteriorate timber

Granulometry:

Granulometry using US Standard Test, Sieve #50 (.3mm) to #200 (0.075mm) for masonry, pointing, dubbing out, first and main coats on renders and rough finishing coats. Meets ASTM C-144 standards for sharp, well-graded sand.

Mixing

Ecologic™ TopCoat must be mixed for five minutes with only clean, potable water. Start with one-half (0.5) gallon of water per bag and slowly add more water only until the mix contains the minimum amount of mixing water to become workable. Keep water ratios consistent between batches to ensure consistency in material performance and appearance. Judge workability only after five minutes of continuous mixing.

DO NOT ADD ANYTHING ELSE TO THE MIX SUCH AS PORTLAND CEMENT, LIME, FLY ASH, POZZOLANS, ACCELERATORS, RETARDERS.

Casein could be added at the rate of 1/8 – 1/4 lb. per bag of mortar to increase fluidity when pumping and spraying coarse (G) renders.

General Application

Mist the substrate and any previous lime mortar application with water immediately before a new application but only as a slight dampening to control absorption. No standing water should remain during a new application. If substrate is retaining inordinate amounts of moisture due to rising damp, bad flashing or moisture from a chimney cavity, this must be corrected before new work begins. ASTM has reports on normal absorption rates for most building materials not explicitly covered by individual manufacturers. Wait a minimum of 10 days between coats of stucco (render). Within 24 hours of an installation rub closed any cracks that form before the next coat is installed. NHL mortar can be reworked within 24 hours depending on weather conditions.

Do not apply at temperatures below 40°F (5°C) or above 85°F (30°C).

Aiding the Cure

Protect the work by covering it with burlap. Spring clamp burlap a few inches away from the work and wet the burlap a few times a day for the cure period of approximately three days. Burlap allows moisture to slowly escape and encourages a slow cure. Burlap should not come in contact with the wall to avoid staining. Tarps could be used on the outside of the scaffold to protect from driving rain and wind.

Environmental Requirements

Materials must be stored and handled to protect them from damage and moisture in accordance with Manufacturer's instructions. It is recommended to take precautionary measures necessary to assure that excessive temperature changes do not occur. Do not apply Ecologic™ TopCoat unless minimum ambient temperature of 40°F (4°C) and a maximum of 85°F (29°C) continues to be maintained for a minimum of 24 hours prior to the application and until Ecologic™ TopCoat has cured for 72 hours at this temperature range. No heavy rain should occur during application and curing time. During hot weather protect from an uneven and excessive evaporation during the dry, hot weather. It is suggested to provide a humidifier in the room during curing.

Technical Data

Working time:

24 hours

Cure time:

72 hour initial cure – 28 day full cure

Average coverage:

Stucco/Plaster 11 sq ft @ $\frac{3}{8}$ of an inch per bag

Shelf life:

24 months if kept sealed and away from moisture.

Safety:

Wear adequate protective clothing to avoid prolonged contact with the mortar. To avoid dust contact with eyes and possible inhalation wear glasses and the appropriate dusk mask especially in areas not properly ventilated.

Disposal:

Sweep and place bulk material in containers and properly remove for disposal. The final, cured product is not hazardous. Dispose of in a landfill in accordance with all local, state and federal regulations.

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