

deGruchy's

LIME



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Makers of

ecologic®

Brand
Mortar & Plaster
For Historic Restoration
and Green Building

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Ecologic™ LimeCrete Ready-Mix

Ecologic™ LimeCrete Ready-Mix is a pre-blended Lime Concrete that contains all of the aggregates which conform to ASTM C33 for making concrete. With Ecologic™ LimeCrete Ready-Mix you just add water, mix and go to work. Ecologic™ LimeCrete Ready-Mix will produce a more robust and structural concrete than a Pure NHL 5 and aggregate lime concrete mix. See our Pure NHL 5 lime concrete advice regarding its use in historic structures when placed over crushed stone atop earthen floors to maintain floor breathability. Ecologic™ LimeCrete Ready-Mix is intended to be used to cast chimney pots and ornaments, make lime concrete balconies, cast shower pans, create ponds, make chimney crowns and Cast Stone. Preparation is as simple as mixing 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 pail weight is 38.5 pounds.

Benefits

Ecologic™ LimeCrete Ready-Mix provides a greener alternative than gray Portland cement binders with fly ash or fillers. Ecologic™ LimeCrete Ready-Mix has a sulfate resisting quality so that future salt attack is lessened. This also reduces future efflorescence issues. Ecologic™ LimeCrete Ready-Mix can be colored by adding Ecologic™ Color Packs or ordered from LimeWorks.us as a "Customized" Product.

Mixing and Placing

Ecologic™ LimeCrete Ready-Mix must be mixed for 5 minutes with clean, potable water. Start with 1/2 of a gallon of water per 38.5 lbs of material. Slowly add water until the minimum amount necessary to reach a workable consistency is reached. Keep water ratios consistent between batches to ensure consistency in material performance and appearance. Judge

workability only after five minutes of continuous mixing. The rule of thumb is to use minimum mixing water to be workable and maximum curing water to obtain optimal strength and durability. Mist the substrate with clean water before placing Ecologic™ LimeCrete Ready-Mix as a slight dampening to control absorption. No standing water should remain during a new application.

Ecologic™ LimeCrete Ready-Mix can be used to make Cast Stone elements using rubber molds or making formed or free-hand structural lime concrete. Consider creating a stainless steel armature to hold up projecting or massive castings. Incorporate non-rusting rebar welded or tied and centered in large lime concrete pours such as for balconies and ponds, etc. Slight rinsing with water to expose aggregates can be done the same day with the possibility of a slight agitation scrub using a stiff nylon brush to expose the aggregate. For maximum strength & bond it is advised to replace 15% of the clean mixing water with Ecologic™ Acrylic Latex Additive or equal.

Aiding the Cure

Protect the fresh work by covering it after allowing all "bleed water" to evaporate and the final troweling and detailing is fully complete. Use burlap or jute, 6 mil plastic sheeting or tarps. Unlike other Ecologic™ Mortar, Plaster and LimeWash applications, 6 mil plastic sheeting and tarps can be used to cover and cure lime concrete made with Ecologic™ LimeCrete Ready-Mix. Any cover may stain and mottle or leave impressions in the finish of a lime concrete surface so consider keeping the covers slightly off the surface to avoid this.

Working Time and Cure Time

Do not apply at temperatures below 40°F (4°C) or above 85°F (29°C). Working time is 2-3 hours. Initial cure is 24 hours. Protected cure is 72 hours before light foot traffic on concrete or stripping forms. Full cure reaching 95% strength is in 28 days.

Average Coverage

One 5-gallon pail (38.5 lbs) of Ecologic™ LimeCrete Ready-Mix will result in approximately .33 cubic feet of Structural Lime Concrete

Shelf Life

24 months if kept sealed and away from moisture.

Safety

When mixed with water, lime-containing materials are alkali and can irritate skin. Wear adequate protective clothing to avoid prolonged contact with the binder. To avoid dust contact with eyes and possible inhalation wear glasses and the appropriate dusk mask especially in areas not properly ventilated.

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 install mixes containing Ecologic™ LimeCrete Ready-Mix 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™ LimeCrete Ready-Mix has cured for 48 hours at this temperature range. No heavy rain should strike unprotected work during application and curing time. During hot dry weather protect all work from an uneven and excessive evaporation rate.

Disposal

Sweep and place bulk material in containers and safely 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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