

deGruchy's

LIME



de WORKS.us

Makers of



Mortar & Plaster Brand  
For Historic Restoration  
and Green Building

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Last Modified: Sep 18, 2020

## Ecologic™ LimeWash Platinum

Ecologic™ LimeWash Platinum is made in the USA. It is a traditional whitewash recipe that when mixed with water on site will with one coat create a stain-like finish. Applying two or more coats will result in a solid and opaque coating for masonry and various wood elements. Ecologic™ LimeWash Platinum is a mineral coating. Mineral coatings absorb into a substrate and they form a network of interconnected crystals which rest in the pores and on the surface of the substrate to which it is applied. Ecologic™ LimeWash Platinum is vapor permeable and resistant to salt attack. Since water in a substrate is allowed to evaporate out freely any salts that crystallize on the surface of the coating can be flushed off instead of becoming trapped under the coating. The proper installation of Ecologic™ LimeWash Platinum for it to stay well-adhered to rough substrates is to install it in successive thin coats and to build it up over many days rather than attempting to install it as a thicker coating by adding less mixing water which would lead to cracking. When installed correctly the result is a sheltering coat of calcium carbonate which is generally referred to as 'whitewash' when it is non-pigmented or "colored limewash" when it is pigmented. Ecologic™ LimeWash Platinum will wear down over time to naturally weather away grain by grain as it is worn down by exposure to the elements. Extreme weathering may require some reapplication in 2 years but it can have a 5-6 year service life out in the elements and longer if used inside or in a protected area.

### Where to use:

Ecologic™ LimeWash Platinum is used as a decorative or sheltering coat on any raw and porous masonry such as untreated vertically laid clay brick, concrete block, coarse natural stone, terracotta, Cast Stone, scarified concrete, traditional sand finish stucco, lime plaster all which needs to display a coarse surface which will first allow water to absorb in. It is not to be used on backgrounds with no suction

or a material containing any waterproofing agents or has a water repellency property or any previously (non-mineral-based) painted surfaces. It can be used on smooth wood and fence posts but all pressure treated or green wood must be over a year old before Ecologic™ LimeWash Platinum is applied and it must have 15% Ecologic™ Acrylic Latex Additive to be added to the mixing water for a bond to these smooth surfaces.

### Mixing:

Fill the container with clean hot water to the bottom ring of the round container opening. A quart will require around 600ml of water (approximately 2.5 cups), a gallon around 2.4 liters of water (approximately 2.5 quarts) and a 5 gallon pail around 12 liters of water (approximately 3.2 gallons). Proper mixing for 3-5 minutes with a drill mixer and paddle is essential and the material should be completely free of lumps or larger particles. For gallon and quart containers put the lid on securely and shake. It can be applied immediately to a pre-dampened surface where no standing water remains. A best practice is to add  $\frac{3}{4}$  of the clean and cold mixing water the day before and let the Ecologic™ LimeWash Platinum sit with a lid on the container for 18-24 hours before use. When ready to use, stir in the remaining amount of hot water (or for non-green, aged and smooth wood, for rough or smooth tree trunks, outdoor rocks, plywood, paneling, etc. replace 15% of the whole amount of water to be used in the mix by adding all of the Ecologic™ Acrylic Latex additive into just the second day's addition of hot water and then mix that into the cold water and limewash that stood overnight) then apply it to the pre-dampened wood or masonry surfaces after all dripping from pre-wetting has stopped. Stir Ecologic™ LimeWash Platinum periodically while in use to keep lime particles in suspension. It must be applied like a lime water mix and not thicker. It will carbonate overnight revealing the color in the morning. As many as three more

successive coats can be applied on the second day after applying the second coat by waiting 4 hours between coats. Let dry it all dry 18-24 hours before applying more Ecologic™ LimeWash Platinum.

**Colors:**

Ecologic™ LimeWash Platinum is a milky white/clear color while in a liquid form and dries brilliant white. A single coat may be semi-transparent the next morning. Sequential coats will result in more solid colors. Scale-like cracking will happen if applied too thick before drying. Additional colors are available upon submittal of a Benjamin Moore®, Sherwin Williams® or Pantone color code and an up-charge for a custom simulation to a have factory prepared Ecologic™ LimeWash Platinum “Customized” mix produced. An Ecologic™ Color Pack can also be purchased separately and added in the field to create color to an Ecologic™ LimeWash Platinum material. Adhesion and all color test spots should be done before any major installation.

**Coverage:**

Approx. 150-200 sq ft. per gallon (varies with surface material, texture and pre-treatment).

**Drying Time:**

18-24 hours between coats is best.

**Application:**

Do not work in temperatures below 40°F (8°C) or above 85°F (30°C) or in too humid of an environment. Protect painted areas from direct sun, drying wind and rain for 3 to 4 days (longer in damp weather conditions). Do not use warm air dryers. All new plastered surfaces should be properly cured before applying Ecologic™ LimeWash Platinum. Apply with a good quality long-haired brush in short strokes in both directions or in a cross-hatch pattern to burnish the Ecologic™ LimeWash Platinum in.

**Cleaning:**

Wash tools with water immediately after use.

**Storage and Shelf Life:**

Keep all containers tightly sealed in a cool, dry and frost-free place. Unopened containers have a 12 month shelf life from the purchase date. Once mixed with water the shelf life is 24 months if kept sealed in airtight containers which are properly stored.

**General Preparation:**

Remove any loose or flaking paints and repair

defective plasters or stuccos. Test the background for suction by lightly flicking clean water from a brush on to the surface of the wall. Rapid suction into the background means that dampening with clean water will be required. In the case of rapid suction it may also be necessary to thin the first coat with 30% additional water. A low suction background does not require pre-wetting or additional thinning for the first coat but there needs to be some suction for the Ecologic™ LimeWash Platinum to adhere. Very smooth or polished surfaces offering little or no suction might require sanding down with sandpaper to create the necessary suction. In the case of historic and old previous whitewash that has formed a glossy sinter skin it is necessary to open the pores of the existing coats by sanding or by using an acidic wash down to ensure a proper bond of the new material. Ensure that the background was initially dry, clean and sound. Do not use lime wash in areas subjected to abnormal condensation such as a kitchen or bathrooms, unless sufficient ventilation is available to prevent condensation. Ecologic™ LimeWash Platinum is a non-film forming material that will hide the background condition if it was initially dry. However, salts and dampness will show through if moisture is moving through the wall and cause the Ecologic™ LimeWash Platinum to fail. Some surfaces may have variations in background suction (i.e.: brick, stone, cement, etc.). Therefore extra care is required in controlling differing suction levels. Ecologic™ LimeWash Platinum can react with some modern gypsum pre-mixed plasters, especially in exterior conditions. Wallpaper joints are often smeared with adhesive during hanging. Make sure that the adhesive paste used is not water soluble. Clean the walls before applying Ecologic™ LimeWash Platinum. When in doubt prime wallboard or gypsum plastered walls with 100% acrylic primer first and allow to dry. Because using 100% acrylic primer defeats the purpose of “breathable walls” in historic and “Green-build” structures consider priming all raw masonry with Ecologic Waterglass first and allowing it to cure for 24 hours. Further consider covering old gypsum plaster, wall paper and well-adhered paint remnants or to unify a myriad of patches to historic raw masonry by using Ecologic™ PLASTER TAKCOAT Platinum. It is a unifying thin coat to transition, condition and prime walls with a thin layer of self-adhering lime plaster so that the Ecologic™ LimeWash Platinum finish will bind well and the end result is more consistent using Ecologic™ LimeWash Platinum. Pp 2 of 3

**Adding more Durability:**

After Ecologic™ LimeWash Platinum has cured for a week, Ecologic™ Waterglass can be applied in a mist application to create greater wear resistance, slow any chalking nature of the material and make the material much more durable. Ask us for details and limitations of this application enhancement.

**Contact:**

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**Safety:**

In case of contact with eyes, immediately flush eyes with large quantities of clean water for at least 15 minutes. Call a physician if irritation persists. In case of contact with the skin flush with water and apply a moisturizing cream to the skin. If swallowed, do not induce vomiting. Give large quantities of water. Call a physician. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

**Precautions for safe handling:**

Special care should be taken to prevent dust from becoming airborne. The use of ventilation and wet methods are recommended.

**Spraying and Respiratory Protection:**

Best protection for all installations starts with the use of a NIOSH approved full-face piece or half mask air purifying respirator which uses particle filters. Dust masks, rubber gloves, goggles, long sleeve shirts and long pants should be worn for all applications as a minimum. When spraying Ecologic™ LimeWash Platinum the installer will still need to burnish in the material manually using a limewash brush. Spray applying Ecologic™ LimeWash Platinum will result in atomization of lime particles causing respiratory, skin and eye irritation. Full PPE suit up is required for spraying Ecologic™ LimeWash Platinum.

**Disposal:**

Sweep and place bulk material in containers and remove for disposal. Flush spill area with water. Material should be disposed of in a landfill in accordance with all local, state and federal regulations.

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