

deGruchy's

LIME



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Makers of

ecologic®
Mortar & Plaster Brand
For Historic Restoration
and Green Building

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Ecologic™ TAKCOAT™ Platinum

TAKCOAT Platinum™ is a specially formulated, self-adhering lime plaster base coat designed for application on sound interior or exterior surfaces without the need for a sanded or acrylic "weld" primer or lath to achieve a strong bond. Once TAKCOAT™ Platinum has cured for at least 18 hours, it can be painted for interior use with breathable latex or lime/mineral paints. For interior applications, **Ecologic™ Plaster TOPCOAT™** can be applied over the cured TAKCOAT™ Platinum in any desired grade to achieve coarse finishes or various Venetian-style finishes. For exterior applications, TAKCOAT™ Platinum should receive minimally a lime/mineral paint or an exterior **Ecologic™ Plaster TOPCOAT™** finished in any style, as a protective shelter coat. TAKCOAT™ Platinum is composed of hydraulic lime, recycled glass aggregates, and contains no VOC additives. It is supplied as a neutral white, dry powdered plaster in 50 lb. units, with water added on-site for mixing.

Benefits

The unique qualities of **TAKCOAT™ Platinum** allow it to be troweled at a consistency similar to cream cheese—or slightly looser—making it easy to spread and flatten over any sound interior or exterior walls. TAKCOAT™ Platinum reduces the time and labor associated with primer applications while serving as the first coat in a lime plaster or stucco system over certain rigid surfaces.

Suitable substrates include:

- New drywall finished to Level III or greater
- Old, soundly painted drywall and unit masonry
- Magnesium Oxide Board (MGO), WonderBoard®, Durock®, Dense-Glass®, 2" foam board, FoamGlass®, Faswall®, ICF blocks, clean vertical concrete, and hempcrete
- Polished stone free of oils and waxes
- Rigid steel beams (Rust will compromise service)

Suitable Exterior Topcoats for TAKCOAT™ Platinum:

- **Ecologic™ Plaster TOPCOAT™ Platinum** in Coarse (G) or Fine (F) grades
- **Ecologic™ Mortar** in any of the 12 stock colors, available in Coarse (G), Fine (F), or Xtra-Fine (XF) grades, standard or custom colored

- **Ecologic™ LimeWash Platinum, Ecologic™ Colorwash Stain, Ecologic™ Potassium Silicate Paint**, or breathable exterior latex paint

Suitable Interior Topcoats for TAKCOAT™ Platinum:

- TAKCOAT™ Platinum can be left as a final finish with no further treatment if applied at an initial thickness of 3/16" or can receive additional TAKCOAT™ Platinum overlays
- **Ecologic™ Plaster TOPCOAT™ Platinum** in Coarse (G), Fine (F), or Xtra-Fine (XF) grades
- **Ecologic™ Mortar** in any of the 12 stock colors, available in Coarse (G) or Fine (F) grades, or customized for binder, aggregate, or color
- Clay plaster or ultra-fine Venetian-style air-setting lime plasters, polished or sealed with hemp soap, black soap, or beeswax finishes
- **Ecologic™ LimeWash Platinum, Ecologic™ Colorwash Stain, Ecologic™ Potassium Silicate Paint**, or breathable interior latex paint

Unsuitable substrates:

- Any flexible substrate
- Substrates saturated or with standing water until fully dried.
- Substrates saturated with soluble salts unless the source of salt has been remedied.
- Metal lath and other self-furring lath materials

Mixing

TAKCOAT™ Platinum should be mechanically mixed using a drill mixer with a paddle attachment. Begin with 1/2 gallon of water, then gradually add more until the mixture reaches a smooth, cream cheese-like consistency with no clumps. The mix should be thick and not overly loose; it should not resemble pancake batter. Mix thoroughly for 3-5 minutes, adjusting the final water content to achieve a workable consistency. TAKCOAT™ Platinum is ready for troweling when it maintains a cream cheese-like texture. For added mold resistance in damp or humid environments, 1/3 cup of borax may be added per gallon of mixing water.

General Application

The application surface must be clean and free from dust, oils, loose or flaking paint, or any other unstable coatings.

Tape off any areas that should not be plastered, such as moldings or trim, and use drop cloths to protect floors from potential staining. For porous surfaces, pre-wet the surface to control suction, ensuring that **TAKCOAT™ Platinum** is applied before the dampness fully dries. **Never apply TAKCOAT™ Platinum to surfaces that are oversaturated or have standing water.** TAKCOAT™ Platinum can be applied as thinly as the grains of its aggregate when transitioning from a smooth surface to the start of a 2-3 coat lime plaster system. In such cases, the purpose of applying TAKCOAT™ Platinum this thin is to provide “tooth” to otherwise smooth substrates. The resulting sandpaper-like texture improves adhesion for subsequent plaster coats. For optimal performance, it is highly recommended to apply TAKCOAT™ Platinum at a minimum thickness of **3/16”**. **Never apply TAKCOAT™ Platinum thicker than 1/4”** in a single lift before it has fully cured. A full cure is achieved when the applied layer turns a brilliant white, with no dark areas indicating retained moisture. Typically, this takes **18-24 hours**. Once fully cured and brilliant white, additional TAKCOAT™ Platinum can be applied if needed. Before reapplying, slightly dampen the previous coat with clean water.

Application

The appropriate trowel size depends on the experience of the applicator. A standard stainless steel plastering trowel is recommended for the initial application. Begin applying **TAKCOAT™ Platinum** to the substrate from the bottom up at a 15-30 degree angle. Start at one end of the wall and work toward the opposite end, spreading each trowel-full outward from the wet edge. Avoid overworking the material. Approximately 1 hour after the initial application, use a small putty knife to fill any small voids or refine the finish as needed.

One-coat Finish

For a one-coat finish, lightly mist the surface **1 to 2 hours** after the mix initially stiffens, depending on drying conditions. Use a flexible steel or plastic plastering trowel to remove trowel marks. Alternatively, a flat finish can be achieved by gently rubbing the surface with a grout sponge in a swirling motion to smooth out trowel marks and create an even texture.

Painting over TAKCOAT™ Platinum

TAKCOAT™ Platinum should cure for **24 hours** and appear evenly white before priming with **Ecologic™ Waterglass**. Allow the Ecologic™ Waterglass to cure for **two days** before finishing with one of the following:

- **Ecologic™ Colorwash Stain**
- **Ecologic™ Potassium Silicate Paint**
- **Ecologic™ LimeWash Platinum**

If using linseed oil-based paints, latex, or other acrylic-based paints, wait **7-10 days** after TAKCOAT™ Platinum has turned evenly white to ensure it has fully carbonated.

Environmental Requirements

Store and handle materials carefully to protect them from moisture or damage, following the Manufacturer's instructions. Take precautions to avoid extreme temperature changes.

- **Temperature:** Do not apply TAKCOAT™ Platinum unless ambient temperatures remain between **40°F (4°C)** and **85°F (29°C)** for at least **24 hours** before and after application.
- **Moisture:** Avoid heavy rain during application and curing.
- **Hot/Dry Weather:** Protect the surface from uneven or excessive evaporation. During hot interior curing conditions, the use of a humidifier is recommended.

Technical Data

- **Working Time:** 1-2 hours once mixed with water. Discard any material mixed with water that sits for more than 8 hours.
- **Cure Time:** In dry conditions, mist TAKCOAT™ Platinum once after an **18-hour** cure time.
- **Average Coverage:** Approximately **70 square feet at 1/8” thickness** per 50 lb. unit. (For use as a transition coat, it can be spray-applied with a plaster sprayer. See the QR Code on the bag for details.)
- **Shelf Life:** 8-12 months when sealed and kept 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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