

Technical Data Sheet

LUNO – Active Clay Plaster

Photo-catalytic indoor plaster for air purification

Area of application:

LUNO - Active Clay Plaster

- for application on walls and ceilings
- for pollutant degradation and catalytic air purification
- to neutralize odors in all areas, residential as well as commercial and industrial premises

Properties:

LUNO - Active Clay Plaster

- degradation of pollutants
- decomposition of nicotine and tobacco odors
- decomposition of unpleasant odors (cooking odors)
- catalytic performance with natural and artificial light
- no decrease in catalytic performance
- provides a healthier and comfortable air quality
- self-cleaning (organic substances)

Technical data:

Basic material	Clay, calcite, organic gum acacia
Basic active agent	Titanium dioxide
Color	White; color pigments available
Combustibility	non-combustible, A1 in accordance with German DIN 4102. ASTM E-84 Test "Class A"
Water consumption	approx. 2¼ gal (8.4 ltr) for 26.5 lbs (12 kg)
Material consumption	approx. 0.04 lb (0.65 oz) per ft ² - 200 gr per m ² , depending on surface. 645 ft ² (60 m ²) per content
Grain size	0.5 mm
Drying time	3 – 4 hours, depending on environmental conditions
Recommended application	Non-alkaline surfaces

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Directions for use:

Necessary installation equipment:

Appropriate safety equipment

Painter tape

Drop cloths

Tile sponge

Paint roller with covers (very short or medium nap)

Paintbrush

Spade handle ½" gear-driven low-speed mixing drill and plaster/paint paddle

You may also need:

150 grit (.08 mm) sandpaper – if the surface you are painting/plastering is glossy

Overview:

All surfaces require 3 steps to apply LUNO - Active Clay Plaster:

1. Substrate preparation
2. First coat application
3. Second coat application

Substrate Preparation:

“Substrate” refers to the wall and ceiling surface that you will plaster/paint over.

Maintain temperatures between 45 and 90 degrees Fahrenheit (7 and 32 degrees Celsius) for 3 days before, during, and 3 days after application. Maintain humidity levels below 50% humidity during application to facilitate drying. For humid climates, A/C or dehumidifiers can be used to achieve proper environmental conditions.

You may follow the General Preparation and Primer directions below for painted or sealed surfaces:

Surface Requirements for LUNO - Active Clay Plaster:

Wallpaper should be removed prior to application. It is essential that all surfaces are dry, sustainable, solid and free of mold and any sort of grease or oils.

Surface:

Application:

Clay Plaster

No primer necessary

Lime Plaster

Primer necessary

Stucco

Primer necessary

Cement Plaster

Primer necessary

Concrete structure

Primer necessary

Heavy texture to be evened out before application

Old plaster

Primer necessary

Heavy texture to be evened out before application

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Gypsum board / Fiberboard	Primer necessary Reinforce and fill joints before application
Chipboard / particle board	Primer necessary Reinforce and fill joints before application
Old water-resistant paint	No primer necessary Make sure surface is viable and consistent in absorption capacity
Old water-soluble paint	Primer necessary Clean surface prior to application

Due to various processing conditions, there is no guarantee for the general validity of this list. When in doubt, apply on comprehensive testing area.

General Preparation:

Prepare surface to be relatively flat, dust free, and well-bonded.

1. Scrape off any loose or flaking paint or other surface material.
2. Clean and fill any joints and depressions to achieve a smooth surface.
3. Lightly sand any high-gloss paint or glossy sealed surface with 150-grit (.08 mm) sandpaper.

WARNING: If you scrape, sand, or remove old paint, you may release lead dust. Lead is toxic. Exposure to lead dust can cause serious illness, such as brain damage, especially in children. Pregnant women should also avoid exposure. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

4. Remove any dust with a vacuum or clean sponge mop.
5. Wash sooty or greasy surfaces with a cleaner of your choice. Let dry.
6. Disruptive substances on the surface, such as drywall areas that were heavily exposed to light, need to be primed and painted prior to application.
7. To prevent existing stains from migrating into the paint, apply stain blocking primer.

Masking:

Protect floors with drop cloths or plastic. Tape all adjacent surfaces. Keep tape 1/8" (3mm) away from the surface being plastered/painted, so tape does not pull off any plaster/paint when tape is removed.

Mixing of LUNO - Active Clay Plaster:

1. Mix LUNO - Active Clay Plaster thoroughly with a paddle mixer prior to adding water. Desired color pigments may be added at this time (up to 3 pouches per bucket). Make sure mixing tools are clean.
2. Pour 2 1/4 gallons (8.4 liter) of water into the 26.5 lbs (12 kg) LUNO - Active Clay Plaster bucket.
3. Add enough water to create a consistency such as "pancake batter" (helps to prevent starrng*) and strongly stir for at least 5 minutes.

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4. Let substance sit for 30 minutes and stir for another 2 minutes. Total water content will vary, depending on humidity level. Scrape sides of bucket and continue mixing until all lumps disappear. The plaster may appear pasty-like because the base ingredient (clay) is able to retain water. In this case, add a little more water, while strongly stirring, until paint-like consistency is achieved.

* Starring is when bits of pigment do not break up during mixing. When troweled, the bits of pigment leave dots or streaks of darker color in the plaster. Pre-mixing pigment with water helps minimize starring.

Application:

Apply product in two layers. Let first layer dry for at least 1 hour before applying second layer. Application with a paint roller, brush or spray gun.

Cleaning:

Tools and plaster that has dropped on the floor can be cleaned up with warm water, even after it is dry.

Content:

26.5 lbs (12 kg) bucket

SAFETY ADVICES:

Caution:

- May cause irritation to eyes and skin
- Dust may irritate respiratory system
- Keep out of reach of children
- Avoid skin contact
- Avoid contact with eyes
- Avoid prolonged exposure or inhalation of dust particles
- Do not ingest

First Aid:

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if irritation develops
- In case of contact with skin, wash immediately with soap and water and seek medical advice if irritation develops
- If swallowed, contact physician immediately for assistance

Storage:

Do not leave wet, processed material, in a bucket for more than 48 hours. Apply material promptly or let it dry out. Some color pigments may oxidize and change color if the unprocessed material is left in a bucket for a longer period of time.

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Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Maintenance of industrial health and safety standards:

Before using, read and follow all label and MSDS precautions.

Material Safety Data Sheet:

MSDS provided upon request.

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