

ALKEMIS PAINT

TECHNICAL DATA SHEET

ALKEMIS PAINT INTERIOR MINERAL WALL PAINT FOR WALLS & CEILINGS

PRODUCT DESCRIPTION

ALKEMIS Interior Mineral Paint is “the World’s First Architectural Wellness Paint”—a functional wellness brand that brings nature and design together to create healthier, more intentional interior spaces.

Formulated using abundant and sustainable potassium silicate as its foundational layer, Alkemis is an all-natural, mineral-based, hand-crafted interior paint made with artist-quality crystalline pigments. Derived from renewable minerals, plants and earthen raw materials (including clear quartz, hematite, goethite and chromite), Alkemis Paint supports a holistic lifestyle to ground and balance.

As one of the only Cradle to Cradle Certified® paints in the USA, the product is non-toxic, zero-VOC, well-suited for allergy sufferers and free of solvents, plasticizers, preservatives or biocides, all while maintaining an incomparably durable and luminous velvet-matte finish that exalts the world’s natural beauty.

In addition to being C2C Certified®, Alkemis Paint is one of the only paint companies in the US that fulfills all five covenants of the [Mindful Materials Common Materials Framework](#) and the [American Institute of Architects Materials Pledge](#), a nationwide initiative that has been signed by over 175 architectural firms. Due to Alkemis' stringent environmental standards, the products are contributory to [LEED Certification Points](#), [WELL Building Standard Points](#) and the [United Nations Sustainable Development Goals](#).

Suitable for residential and commercial applications.

APPLICATION USES

Walls and ceilings of new or previously painted drywall, plaster, brick, masonry, concrete, stucco or stone. Not recommended for use on glossy paints or varnish, floors, wood or plastic surfaces. The product is high hiding, even in dark, deep or vivid colors and provides one coat coverage on most smooth surfaces. It may also be used over previously painted latex or acrylic surfaces, and is self-priming.

ALKEMIS PAINT

PRODUCT PROPERTIES

Alkemis Interior Mineral Paint is formulated with only natural mineral binders, fillers and pigments.

HEALTH BENEFITS

- All-natural
- Non-toxic
- Zero VOC
- No odor or off-gassing
- No solvents or plasticizers
- No preservatives, fungicides or biocides
- No synthetic pigments or chemical colorants
- Composed of renewable, earthen raw materials (including clear quartz, hematite, goethite and chromite) with wellness benefits
- Hygienic due to its high pH
- Resistant to mold, algae and fungi growth (certified resistance to fungi)
- Well-suited for allergy sufferers and sensitive groups

PERFORMANCE BENEFITS

- Hand-crafted
- Made to order
- Self-priming / easy application
- One coat coverage on most surfaces
- Velvet matte finish with high luminosity and light reflective value
- Artist-quality crystalline pigments
- Breathable / vapor permeable (does not allow moisture to condense and collect)
- Improves indoor air quality
- Quick drying
- Non-film-forming (won't ever peel)
- Non-flammable (Class A ASTM E 84 fire rating, corresponding to DIN 4102-A2, certified)
- Anti-static (surfaces stay clean longer)
- Lightfast / UV stable (will not fade)
- Weather resistant
- Water repellent
- Abrasion and scrub resistant

ALKEMIS PAINT

- Forms a secure, insoluble bond between the paint and the underlying substrate (drywall, plaster, masonry, concrete, stucco and previously painted latex or acrylic surfaces)
- 20+ years of satisfactory performance before repainting is necessary
- Macro-fill technology for outstanding hiding and final appearance
- Very durable even in extreme environments

ENVIRONMENTAL BENEFITS

- Cradle to Cradle Certified®
- Contributory to LEED certification points, UN Sustainable Development Goals and all 5 covenants of the AIA Materials Pledge
- Cans are made from steel, which is infinitely recyclable
- Economical: long renovation intervals and long-term savings; minimum maintenance costs due to long-lasting functionality and appearance
- Emission-free: manufacturing sites use renewable energy and short supply chains to improve carbon footprint
- Cruelty-free: vegan / not tested on animals
- Women-owned small business
- Made in USA

TECHNICAL DATA

Specific Weight = 1.3 g/cm³

pH Value @ 20°C = 11

Gloss at 85° = 2.0 Mineral Matte Flat

Flashpoint = Non-Flammable

Vapor Permeability = 75–85 perms

VOC (white or tinted) ASTM D6886 < 1 g/liter

Contrast ratio (hiding power) per ISO 6504-3 = Class 1 (best in class)

Wet abrasion resistance per ISO 11998 = Class 1 (best in class)

All test results performed on 2 coats applied at 300–350 SF/GAL and 14-day cure @ 77°F & 50% RH

COLORS AVAILABLE

White and most color shades. Custom color matches are available.

ALKEMIS PAINT

ENVIRONMENTAL COMPLIANCE

CRADLE TO CRADLE® CERTIFIED - YES
UN SUSTAINABILITY GOALS - YES
AMERICAN INSTITUTE OF ARCHITECTS MATERIALS PLEDGE - YES
EPA - YES
LEED - YES
CARB - YES
SCAQMD - YES

SPECIFICATIONS/SYSTEMS

For maximum durability on bare and not previously coated surfaces, 2 coats should be applied at recommended coverage rates.

New Drywall or Wallboard

1-2 coats of Alkemis Interior Mineral Primer
1-2 coats Alkemis Interior Mineral Paint

New CMU Block

1 coat Block Filler
1-2 coats Alkemis Interior Mineral Paint

Unpainted Masonry, Stone or Stucco

2 coats Alkemis Interior Mineral Paint

New Plaster

2 coats Alkemis Interior Mineral Paint

Previously Latex or Acrylic Painted Surfaces

1-2 coats Alkemis Interior Mineral Paint

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

ALKEMIS PAINT

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeling or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate latex primer/sealer. Mask to protect surfaces which are not to be coated (e.g., glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be cleaned immediately. Do not let paint dry as it will be very difficult to remove.

Drywall

Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Masonry, Concrete, Cement, Block

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface.

Plaster and Stucco

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 part Fixative (such as Beek Fixative) and 3 parts water to reduce porosity of plaster. Repeat until the surface is sound. Allow to dry overnight.

Limitations

Do not use Alkemis Interior Mineral Paint on surfaces saturated with salts, where efflorescence is present or MGO wallboards. Do not apply to glossy enamels, or on bare wood or plastic surfaces. Do not use on floors.

APPLICATION

Alkemis Interior Mineral Paint is easy to apply and requires no special equipment or training. Ensure Alkemis Interior Mineral Paint is completely stirred. We recommend stirring all containers thoroughly with a slow speed drill and paddle mixer. Boxing paint (combining paint into a larger container) helps prevent shade variations from bucket-to-bucket and on large surfaces.

Interior Mineral Paint may be applied by brush, roller or airless spray.

- Brush - Use a nylon/polyester brush
- Roller - Use 3/8" to 3/4" nap synthetic roller cover
- Airless Spray (recommend back rolling)

ALKEMIS PAINT

- Pressure: 2000psi
- Tip: .025 in, minimum

Thinning

Paint can be applied as supplied. Alternatively, up to 10% water may be added to the first and second coat to make it easier to keep a wet edge so you do not get lap marks. Do not apply more than 10% water as it will impact the washability of the surface. Add: 3 oz. for 1 quart / 1.5 cups for 1 gallon / 5.5 cups for 3.5 gallon

Painting

Cut-in with a nylon/polyester brush. Only cut-in what you can paint within an hour. Use a 3/8"-1/2" nap synthetic roller and roll into damp cut-in paint. Work quickly as paint is fast-drying. Last pass should be from ceiling to floor to even out roller pattern.

Texture/Appearance

For a consistent matte mineral finish, roll on or spray two coats. Back roll for most even appearance. For a velvety texture, apply the second coat with a block brush in an X pattern.

First Coat

Apply first coat to cover surface with no runs and allow to dry 2-4 hours.

Topcoat

For best results apply second coat undiluted and allow to dry overnight. There is no recoat window after the first coat has dried. Mineral paints build quickly so avoid build-ups of paint at cut-in junction or overlapping pattern from roller or spray. Final finish should be as even as possible for best results.

Touch Up

Use same batch of paint and method of application for touch-up. For best touch-up results, pre-condition surface by dampening area immediately around touch-up. This will help you avoid a dry "edge" which can be visible in raking light. Thin paint 10% and apply as sparingly as possible feathering paint out and away from damaged area.

APPLICATION CONDITIONS

Apply at temperatures above 50°F and below 86°F.

ALKEMIS PAINT

DRYING TIMES

Drying times are temperature, humidity and coverage dependent.

Touch: 2-4 hours

Recoat: 12 hours

SUBSTRATE COVERAGE*

Drywall and Wallboard 300–350 SF/GAL

Cast or Pre-Cast Concrete 275–325 SF/GAL

Brick or Stone Masonry 175–225 SF/GAL

Plaster and Stucco 150–200 SF/GAL

CMU Block (smooth) 100–150 SF/GAL

*Stated values are based on smooth surfaces. Surface texture, porosity, application conditions and type of equipment used will all vary amounts used.

CLEANING

Clean spills, spatters, hands and tools immediately after use with soap and warm water. Tools should be kept in the paint material or in water during work breaks.

PACKAGING

1 Quart, 1 Gallon and 3.5 Gallon

STORAGE

Approximately 12 months in tightly closed container under cool, frost-free conditions. Please protect from freezing, heat and direct sunlight.

DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations. Cleaned out containers may be recycled.

SAFETY INSTRUCTIONS.

CAUTION! SKIN OR EYE CONTACT MAY CAUSE TEMPORARY IRRITATION.

KEEP OUT OF REACH OF CHILDREN

Use proper protective equipment and clothing. Wash hands and skin after handling. Keep container closed when not in use. FIRST AID: If swallowed, give two glasses of water. Do not induce vomiting. Call for medical help immediately. Never give anything by mouth to an unconscious person. In case of skin irritation, consult a physician. In case of contact, immediately flush eyes and skin with plenty of water; get medical help if needed.

ALKEMIS PAINT

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. The information and recommendations set forth in this Technical Data Sheet are based upon tests conducted by or on behalf of ALKEMIS PAINT. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication.

ALKEMIS PAINT

5150 Broadway St. #471

San Antonio, TX 78209, USA

www.alkemispaint.com

info@alkemispaint.com