



TECHNICAL DATA SHEET

INTERIOR MINERAL WALL PAINT

SOL SILICATE MINERAL PAINT FOR WALLS AND CEILINGS

1. PRODUCT DESCRIPTION

KEIM Interior Mineral Paint is a premium and extremely healthy paint alternative to latex and acrylic paints for a healthier home. Made from earthen mineral binders, fillers and pigments, no harsh chemicals are added. This paint has no VOC's, plasticizers or added preservatives or pesticides, is ideal for use by chemically sensitive individuals and those desiring an extremely sustainable paint. Using artist-quality mineral pigments results in one-of-kind depth and purity of color. A micro-crystalline surface creates a luxurious velvet matte finish to uniquely interact with light throughout the day. The velvet like texture adds depth and dimension to interior walls and ceilings and is particularly appropriate where critical, raking light is present. The paint surface is extremely durable, high hiding and easy to apply. Perfect for application in occupied areas.

2. FIELD OF APPLICATION

Use on new or bare, plaster, drywall and wallboard, masonry, concrete and stucco. Thanks to its outstanding product characteristics it 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, latex or acrylic painted surfaces, and is self-priming. Do not use on bare wood or plastic surfaces.

3. PRODUCT PROPERTIES

Interior Mineral Paint is based on silica-sol potassium silicate binder and formulated with only mineral fillers and pigments. It is completely natural and extremely low odor.

- Intense and lightfast color shades with unique depth of color
- Optimized for application in areas with glancing light
- Abrasion and scrub resistant
- Outstanding hiding and one-coat coverage
- Easy to use—extremely low odor

- Highly vapor permeable
- Incombustible (corresponding to DIN 4102-A2, certified)
- Hinders mold growth (certified resistance to fungi)
- Ecological with very low environmental impact
- Macro-fill technology for outstanding final appearance

Technical data

Specific Weight	1.3 g/cm ³
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	

Color shades

White and most color shades. Custom color matches available.

Environmental Compliance

UL GREENGUARD GOLD	YES
EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES

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4. 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 coat of Interior Mineral Primer

1--2 coats Interior Mineral Paint

New CMU Block

1 coat Contact Plus Block Filler

1—2 coats Interior Mineral Paint

Unpainted Masonry, Stone or Stucco

2 coats Interior Mineral Paint

New Plaster

2 coats Interior Mineral Paint

Previously Latex or Acrylic Painted Surfaces

1—2 coats Interior Mineral Paint

5. 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.

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 KEIM Fixative and 3 parts water to reduce porosity of plaster. Repeat until the surface is sound. Allow to dry overnight.

Limitations

Do not use 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.

6. APPLICATION

Ensure Interior Mineral Paint is completely stirred before use. It should be smooth and homogenous with no streaks. Boxing mixed colors helps maintain color consistency from pail to pail 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)
 - Pressure: 2000psi
 - Tip: .025 in, minimum

First coat

Interior Mineral Paint may be diluted up to 10% with water. Cut in with a brush only those areas you can paint within an hour. Apply a full even coat with no runs, sags or holidays by roller or sprayer. If spraying we recommend back rolling with a damp roller to minimize spray pattern appearance, finishing from top to bottom. Allow to dry 12 hours or overnight before recoating.

Top coat

Apply Interior Mineral Paint undiluted. 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.

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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.

Drying times

Drying times are temperature, humidity and coverage dependent.

Touch: 2--4 hours
Recoat: 12 hours

Coverage*

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 our experience on smooth surfaces. Surface texture, porosity, application conditions and type of equipment used will all vary consumption.	

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.

7. PACKAGING

Quart, Gallon and 4 Gallon

8. STORAGE

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

9. DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal

waste regulations. Cleaned out containers may be recycled.

10. SAFETY INSTRUCTIONS

CAUTION! SKIN OR EYE CONTACT MAY CAUSE TEMPORARY IRRITATION.

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.

KEEP OUT OF REACH OF CHILDREN

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. This edition supersedes all earlier editions.

The information and recommendations set forth in this Technical Data Sheet are based upon tests conducted by or on behalf of KEIM Mineral Coatings. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult <http://www.keim-usa.com/Technical-Data-Sheets> for the latest in product technical information.