



TECHNICAL DATA SHEET

EXTERIOR MINERAL BONDING PRIMER

PRODUCT DESCRIPTION

Mineral Bonding Primer is a sol-silicate primer designed to prepare exterior previously painted surfaces, glossy and tough to paint surfaces for subsequent painting with mineral paints and limewash. It provides tenacious adhesion and is ideal when multiple types of masonry are present, providing a uniform mineral surface. This primer is smooth and does not fill-in or provide added texture.

- Provides a uniform mineral surface for subsequent mineral and limewash topcoats and improves overall appearance
- Apply to a variety of mineral surfaces
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Naturally mold, algae and fungus resistant—no pesticides used

FIELD OF APPLICATION

Mineral Bonding Primer is used to bond to exterior previously painted and difficult to paint surfaces. It provides added adhesion when renovating or coating sound acrylic and silicone resin-based coatings, acrylic stucco, terracotta, brick, masonry and cement fiber siding. Do not use on floors or previous elastomeric coatings or oil base painted surfaces.

Mineral Bonding Primer is not a finish coat and can only be used as a base coat/primer; it must be over coated with 2 coats of a KEIM Mineral Masonry Paint or Limewash.

PRODUCT PROPERTIES

- Moisture vapor permeable, will never peel due to hydrostatic pressure
- Penetrates masonry and existing coatings and fuses—won't peel or lose adhesion
- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)

Technical data

Density	1.6 g/cm ³
VOC (ASTM D6886)	< 1 g/liter
Organic Content	< 5%
Cured pH value	Approximately 11
Vapor Diffusion	sd (H ₂ O) = <0.01 m
Water Absorption Coefficient	W=0.20 kg/m ² h 0.5 (acc. to DIN EN 1504)
Vapor Permeability (ASTM E96)	77 Perms
Flashpoint	Non-Flammable
Mildew Resistance ASTM D3273/D3274	Passes—No fungal growth
Gloss at 85° ISO 2813	0.5 Mineral Matte Flat
All test results performed on 1 coat of Mineral Bonding Primer applied at 275—325 sf/gallon	

Environmental Compliance

EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES



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TECHNICAL DATA SHEET – CONTACT PLUS® SOL-SILICATE SMOOTH BONDING PRIMER

Colors:

White Matte Flat

SPECIFICATIONS/SYSTEMS

Use as a primer system for Keim Mineral Masonry Paint and Limewash.

SURFACE PREPARATION

The substrate must be sound, solid, dry, clean and free of dust, grease, oils, salts, moss, algae and other substances that would prevent penetration and bonding. Old, oil base paints, loose substrate layers and loose latex or acrylic layers must be removed. Repair damaged areas as needed before painting.

APPLICATION

Mineral Bonding Primer may be applied by brush, roller or airless spray.

- Brush - Use a nylon/polyester brush
- Roller - Use a ½" to ¾" nap synthetic roller cover
- Airless Spray
 - Pressure: 3000 psi, minimum
 - Tip: .035 in
 - Remove filters from gun and pump, use 30 mesh filter on siphon tube only

Prime coat

Ready to use, apply as supplied. Allow to dry 12 hours or overnight before recoating.

Application conditions

Ambient and substrate temperature: 40°F and rising and below 95°F. Do not apply in direct sunlight or on sun-heated substrates. Protect coated surfaces from direct sunlight, wind and rain during and after application for a minimum of 12 hours.

Drying times

Drying times are temperature, humidity and coverage dependent.

	@ 40-50°F	@ 50°F +
Touch:	4--6 hour	2--4 hours
Recoat:	24--48 hours	12 hours

Coverage

SUBSTRATE	COVERAGE*
Brick and Masonry	225—275 SF/GAL
Cement fiber Siding	275—325 SF/GAL
CMU Block (smooth)	100--150 SF/GAL
CMU Block (split faced or fluted)	50—75 SF/GAL
Portland Stucco	150—200 SF/GAL

*Stated values are based on our experience with a smooth finish. Surface texture, porosity, application conditions and type of equipment used will all vary consumption. Only a test application under production conditions will forecast consumption of the system accurately.

Cleaning

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Tools should be kept in the paint material or in water during work breaks.

Mixing with other products

Do not mix with water or other products.

PACKAGING

Gallon and 4 Gallon

STORAGE

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

DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations. Any residues must be emptied out of containers before recycling.

HAZARDOUS SUBSTANCE CLASS

n/a

TRANSPORT HAZARD CLASS

n/a



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SAFETY INSTRUCTIONS

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.

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.



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