



TECHNICAL DATA SHEET

EXTERIOR MINERAL BONDING PRIMER

PRODUCT DESCRIPTION

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

FIELD OF APPLICATION

Mineral Bonding Primer is used to bond to exterior previously painted and difficult to paint surfaces. Also, for new or bare brick, stone, stucco, and concrete fiber siding. Do not use on elastomeric finishes or oil base paints. This primer is also not suitable for floors.

PRODUCT PROPERTIES

Use to prime existing paints and coatings, glossy surfaces and those that are generally difficult to paint. Prepares surface for subsequent coats of mineral or lime base paints.

- Moisture vapor permeable, will never peel due to hydrostatic pressure
- Penetrates masonry and existing coatings and chemically bonds—won't peel or lose adhesion

- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)
- Provides a uniform mineral surface for subsequent mineral topcoats and improves overall appearance
- Apply to a variety of masonry surfaces
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Naturally mold, algae and fungus resistant—no pesticides used

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	

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Environmental Compliance:

EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES

Colors:

White. Can be tinted to light shades if requested.

SPECIFICATIONS/SYSTEMS

Use as a primer system for all Keim Mineral Silicate paint systems including Granital, Royalan, Soldalit and Concretal. This is a smooth finish and will not add texture or fill in hairline cracks or minor pits and voids. Use Contact Plus Sand Bonding Primer or Contact Plus Coarse Block Filler when filling the substrate is desired.

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-based coatings, loose substrate layers and loose latex or acrylic layers must be removed. Repair damaged areas as needed before painting. Clean mineral surfaces as needed with KEIM Heavy Duty or Light Duty Cleaner or KEIM Bio Cleaner.

Soft, porous, or friable mineral surfaces, where substrate porosity is variable or aged existing mineral coats may be stabilized and consolidated by pretreatment with Spezial Fixative. Mix 1 part Fixative with 3 parts fresh water and apply to porous surface to saturation. Allow surface to dry 12 hours before proceeding.

APPLICATION

Contact Plus Smooth 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

Contact Plus Smooth may be diluted up to 10% with Soldalit Dilution depending on the substrate's absorbency. Allow to dry 12 hours or overnight before recoating.

NOTE: For extreme weather conditions or critical, intensive color shades it is recommended to apply a three-coat system.

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: hours	4--6 hour	2--4
Recoat: hours	24--48 hours	12

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Coverage

SUBSTRATE	COVERAGE*
Cast or Pre-Cast Concrete	275—325 SF/GAL
Fiber Cement Siding	275—325 SF/GAL
Brick and Masonry	225—275 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, spatters, 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

In order to maintain the specific features of Mineral Bonding Primer and the related system products, they must not be mixed with other products or additives and do not thin with water.

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

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.