



**INTERIOR PAINT | WASHABLE | MODIFIED POTASSIUM SILICATE PAINT (DIN 18 363) ECO-SUSTAINABLE PAINT
PRODUCT FOR HEALTHY INTERIORS**

FIELDS OF APPLICATION

SonoKote Matte is a primer and finish paint for interior wall surfaces & trim, and consolidation for new drywall without the use of an additional primer. A non-acrylic paint product providing superior adhesion, with high resistance to mold growth without the need for biocide additives.

SonoKote Matte, as with all the SonoKote line mineral paints, is designed to be diluted with water, providing a paint applicator optimal ranges to adjust the paint's thickness and density as per job site application may require.

SonoKote Matte can be used as a decorative finish when applied on virgin slaked cement plasters, woods, mineral paints like SonoKote Micro, SonoKote Medium, and SonoKote II. SonoKote Matte is ideal for application for cabinets and furniture when applied to unpainted or sealed woods. SonoKote Matte paint is a very versatile and dynamic paint that permits hundreds of options for variations, adjusting dilutions and application techniques to create professional and historical artistic finishes.

Dilutions with water are suggested as general guidelines for application, but paint applicator may adjust dilutions as needed to meet best uses for ease of application, job site requirements and finishes.

PRODUCT FEATURES

An 87% natural mineral product, highly permeable, breathable, absorbs CO₂, provides good anchoring power with mineral surfaces by petrification (water glass); and will bond to the mineral content on the substrate. Provides protection against the formation of bacteria that forms mold. Product is considered an Eco-Sustainable product, ideal for use in homes, schools, and hospitals, and chemical sensitive areas.

This paint product is an oil proof, washable matte finish that is not damaged by foods, greases, body oils, color crayons or washable colored markers. Oils or greases can be removed using a mild detergent, lightly scrubbing with a rag or sponge, and dry with a clean rag or paper towel. Paint touch-ups are simple and do not require whole wall repaints.

SonoKote line mineral paints (potassium silicates) require an average 14 days to fully cure, and will continue to micro-crystallize for 7 – 8 years. Care must be given for newly painted surfaces to minimize damages resulting from soiling, over zealous cleaning and tape masking.

SonoKote Matte is specifically designed to be tinted with natural earth oxide tints and 0% VOC colorants to increase aesthetic color values with minimal environmental impact and toxin-free indoor air quality. SonoKote Matte is category ECO which means Eco-Sustainable containing at least 75% natural raw materials, and the other 25% inert binders and non-toxic chemicals.

TYPE OF PRODUCT

Silicate coating according to DIN 18363, based on a modified potassium silicate with 13% organic stabilizers and other proprietary chemicals.

SHEEN FINISH

Matte/Flat

COLOR

White/Transparent Base. Color tint up to 5% max with approved tints for white base, 15% max with approved tints for transparent base. Custom color tint matching available.

TESTING & CERTIFICATIONS

SonoKote Matte has passed these tests and received these certifications:

[A+ rating for French VOC Test](#); [Cradle to Cradle \(C2C\) Certified Silver v3.1](#); [Health Product Declaration](#); and [CA1350 / California Department of Public Health \(CDPH\) Standard Method v1.1-201](#). For all up to date testing, visit [here](#).



LEED v4 CREDITS

SonoKote Matte contributes to credits for these categories for LEED v4:

1. **Building Product Disclosure And Optimization – Material Ingredients:** [C2C Silver v3.1 & HPD](#)
2. **Low Emitting Materials:** [Passed CA1350](#)
3. **Indoor Air Quality:** [TVOC Tests](#)



DATE REVISION : 08-09-2016

TECHNICAL DATA

CRITERIA	INT. STANDARD	VALUE	UNIT
VOC (including tint pigments)	2004/42/CE Max. Value 30g/l (2010) DIN EN ISO 11890-1/2	0.0	g/l
Water Absorption Coefficient	EN 1062-3 – DIN 52617	0.10	kg/(m ² •√h)
Vapor Permeability	DIN 53122 EN 7783-2 EN 1062-1 EN 10795	< 200 S _v 0.25 Class II Medium High Medium High	g/m ² (24 h)
Caulking Resistance	ASTM-D-659	800	UV Hour Con.
Damp Abrasion Resistance (Gardner Cycles)	EN 10795 – ISO 11998	Ideal	Class 1 >5000
Surface Retention Smog/Dirt	EN 10795	Low	> 9 – ≤ 15
Drying Time at Low Temperature	UNI 10793	> 5	°C
Application on Damp Cement NHL 3.5/5.0	UNI EN 13300	Excellent	
Potassium Silicate Opaque Paint for Interior	DIN 18363 Paragraph 2.4.1	Yes	–Application
Quality	UNI 10794	Good	–
		Hide and Cover Capacity	
ISO 6504-3 M.U. 1631	Class 2	< 96 – < 98	
pH Value	DIN 19266	9.8 w / 11.3 t	–
Natural Resistance to Mold	DIN 19266	Good	–
Alkaline Resistance	UNI 10795	Excellent	–
Specific Gravity (23°C)	EN ISO 2811-2	1.37	g/ml
Granulation	DIN 19643 – EN 21524	0.0 – 0.01	mm
Gloss Level	UNI EN ISO 2813	< 6	Flat
Reaction to Fire	EN 13501-1:2002	A 1	Incombustible
Toxicity	EN 13501-1:2002	Non-Toxic	–
EcoLabel	CEE 88/379	3 – 4 – 7 – 8	Criteria EcoLabel
EcoLabel	–	0% APEO FREE Exempt of Butyl Phthalate (DBP), Dioctyl Phthalate (DOP), 2-Ethylhexyl Phthalate (DOP)	–
PEG (Polyethylene Glycol)	–	0%	–
APEO (Alkyl Phenol Ethoxylates)	–	0%	–
PG (Propylene Glycol)	–	0%	–
Formaldehyde	–	0%	–
Biocides	–	0%	–

Does not contain chemicals that can aggravate or cause asthma, see NIH Asthma Report 2012.



GENERAL APPLICATION INSTRUCTIONS

(For detailed dilutions and instructions for specific type of surfaces including new and painted drywall/wood, please see **APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACES**.)

WHITE BASE

BRUSH AND ROLLER APPLICATIONS

1ST COAT PRIMER COAT / INTERIOR: For White Base colors, SonoKote Matte is a two (2) coat application without the need for an additional primer when applied on new, unpainted drywall, plaster and wood; and for pre-painted flat or matte surfaces. For unpainted surfaces, apply one (1) coat of tinted SonoKote Matte as 1st coat/primer diluted with 25 - 30% water, or 3.75 - 4.5 liters of water per one (1) 15 liter bucket and allow to dry for 4 - 8 hours. For pre-painted flat or matte surfaces, apply one (1) coat of tinted SonoKote Matte as 1st coat/primer diluted with 20 - 25% water, or 3 - 3.75 liters of water per one (1) 15 liter bucket.

Do not attempt to cover new walls or surfaces with one (1)-coat of paint. The 1st coat will not provide perfect coverage. Apply enough paint to fully cover the walls or trim. New drywall will continue to absorb SonoKote Matte if the 1st coat is not allowed to dry properly. Improper application methods can result in reduction of paint coverage by as much as 80 - 90%.

For surfaces pre-painted with eggshell, satin, or gloss surfaces, SonoKote Micro is a required primer (see details below in **PAINTED DRYWALL-APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACE**).

2ND COAT / INTERIOR: For White Base colors, dilute SonoKote Matte with 20 - 25% water, or 3 - 3.75 liters of water, to one (1) 15 liter bucket. Apply paint in an even and constant pattern, so that a perfect coverage is achieved. The 2nd coat is the most important for achieving your final desired finish. For repaints over dark colors, apply 1st coat application with the minimum dilution of water.

Dilutions with water are suggested as general guidelines for application, but paint applicator may adjust dilutions as needed to meet best uses for ease of application, job site requirements and finishes.

PAINT SPRAYERS

Follow instructions above for White Base BRUSH AND ROLLER APPLICATIONS for dilution rates for 1ST COAT/PRIMER COAT. Make sure to apply enough paint to fully cover the surfaces to be painted. Allow 1st coat to dry for at least 1 - 2 hours before applying 2nd coat. Application of final coat using a sprayer without the use of back rolling may provide the most attractive finish, but it can make repaints or repairs in the future difficult because sprayers generally cannot be used in inhabited spaces. Thus, back rolling on all walls is recommended for future repaints. Back rolling should occur immediately after wall area has been sprayed. Do not try to back roll if sprayed paint has dried on the wall.

TRANSPARENT BASE

BRUSH AND ROLLER APPLICATIONS

1ST COAT / PRIMER COAT / INTERIOR: For Transparent Base/dark colors, SonoKote Matte is a two (2) coat application without the need for an additional primer when applied on new, unpainted drywall, plaster and wood, and on pre-painted flat or matte surfaces. For unpainted surfaces, apply one (1) coat of tinted SonoKote Matte Transparent Base as a 1st coat/primer diluted with 25 - 30% water, or 3.75 - 4.5 liters of water per one (1) 15 liter bucket and allow to dry for 2 - 4 hours before applying 2nd coat. For pre-painted flat or matte surfaces, apply one (1) coat of tinted SonoKote Matte Transparent Base as a 1st coat/primer diluted with 10 - 15% water, or 1.5 - 2.25 liters of water per one (1) 15 liter bucket.

For surfaces pre-painted with eggshell, satin, or gloss surfaces SonoKote Micro is a required primer tinted if necessary* (see details below in **APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACES**).

Do not attempt to cover new walls or surfaces with one (1)-coat of paint. The 1st coat will not provide perfect coverage. Apply enough paint to fully cover the walls or trim. Allow 1st coat to dry for at least 1 - 2 hours before applying 2nd coat. New drywall will continue to absorb SonoKote Matte if the 1st coat is not allowed to dry properly. Improper application methods can result in reduction of paint coverage by as much as 80 - 90%.

2ND & 3RD COAT / INTERIOR: For SonoKote Matte Transparent Base/dark colors, dilute SonoKote Matte with 10 - 15% water, or 1.5 - 2.25 liters of water, to one (1) 15 liter bucket. Apply paint in an even and constant pattern, so that a perfect coverage is achieved. The 2nd coat is the most important for achieving your final desired finish. Inspect coat for even coverage and sheen. In some cases, a 3rd coat may be needed to provide an optimum finish.

PAINT SPRAYERS

Follow instructions above for Transparent Base BRUSH AND ROLLER APPLICATIONS for dilution rates for 1ST COAT/PRIMER COAT. Make sure to apply enough paint to fully cover the surfaces to be painted. Allow 1st coat to dry for at least 1 - 2 hours before applying 2nd coat. Application of final coat using a sprayer without the use of back rolling may provide the most attractive finish, but it can make repaints or repairs in the future difficult because sprayers generally cannot be used in inhabited spaces. Thus, back rolling on all walls is recommended for future repaints. Back rolling should occur immediately after wall area has been sprayed. Do not try to back roll if sprayed paint has dried on the wall.

SPRAY TIP USAGE: SonoKote Matte can easily be applied using an airless sprayer. Apply paint product with a #0.019 - 0.021 inch (0.48 - 0.53 mm) size spray tip. Always use new spray tips for starting a paint job for best results. This will also conserve the amount of paint necessary to complete the job.

GRAIN SIZE: 0.1 mm

**NOTE: For very bright colors not selected from the SonoKote color palette, it is recommended that the primer is tinted 25 - 75% with the final formulation of the SonoKote Matte color to achieve maximum coverage.*

MIXING PAINT & WATER

SonoKote line mineral paint formulas are concentrated and require water to be added to them for proper use. This concentrated formula means more coverage in each bucket, decreasing the cost for transport, and reducing our carbon footprint. We do not have to add toxic preservatives or anti-microbial to increase shelf life like most acrylic paint products.

Mix paint and water with an electric drill, paint paddle, or mix well by hand! If water is sitting on the top of your mixture, the paint is not properly mixed!

TOOLS

Apply with brush, roller or an appropriate sprayer and sprayer tip. New sprayer tips should be used to prevent product waste and provide for a more perfect finish. It is recommended to use professional high quality synthetic brushes and for rollers to use professional quality with a mohair nap or pile of 6 - 8 mm.

TOOL CLEANING

Brush, roller, rags, or sponges should be cleaned immediately after use with water and a mild detergent or dish soap.

DRYING TIME

Allow a drying time between coats of at least 1 - 2 hours. With lower temperature and humidity more time may be needed. Allow at least 8 - 12 hours drying time before attempting washing or applying additional products or other finishes. Complete curing occurs within 14 days, and with silicification, hardness will increase to approximate full strength in three (3)-months.

CONSUMPTION / COVERAGE

Approximately 2,550 ft² / 237 mt² - 2,800 ft² / 260 mt² per 15 liters bucket diluted according to instructions for a one (1) coat application. Applications on virgin surfaces will absorb more paint on the first coat, and spread further on the 2nd coat as well for repaints. Determine exact consumption by performing a test on the surface to be painted.

PACKAGING

Plastic buckets of 1, 2.5, 5, 12.5 and 15 liters.





APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACES

Make sure base is solid, dry and well cleaned, prepared with skill. It is recommended to observe the rule VOB DIN 18363, Part C, paragraph 3.

NEW DRYWALL

1ST COAT / PRIMER COAT – WHITE & TRANSPARENT BASE: SonoKote Matte is an excellent primer and consolidator for new grey-board, blue-board, and greenboard drywalls. Drywall surfaces should be carefully sanded prior to application of SonoKote Matte. This product permits minimum drywall joint compound repairs and back sanding without peeling. SonoKote Matte is a very strong and durable paint, and once dry is not easily sandable. Drywall repairs should be carefully primed with SonoKote Matte prior to application of 2nd coat of SonoKote Matte.

Apply one (1) coat of SonoKote Matte as a primer diluted with 25 – 30% water, or 3.75 – 4.5 liters of water per one (1) 15 liter bucket and allow to dry for 4 – 8 hours.

2ND COAT – WHITE & TRANSPARENT BASE: Apply SonoKote Matte as indicated in GENERAL APPLICATION INSTRUCTIONS.

PLASTER APPLICATIONS ON NEW DRYWALL: SonoKote SuperFlat or SonoKote Matte must be applied to all types of blue or green-boards prior to the application of SonoKote Micro or Medium. For applications on grey-board, EcoForte Consolidator, SonoKote SuperFlat or SonoKote Matte can be used prior to application of SonoKote primers.

PAINTED DRYWALL

1ST COAT / PRIMER COAT – WHITE & TRANSPARENT BASE: For walls that have been pre-painted with eggshell, satin, semi-gloss or gloss paints, oil or latex, SonoKote Micro primer should be applied prior to application of SonoKote Matte. Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for 8 – 12 hours. SonoKote primers may be tinted from light to medium colors. Use an approved sprayer for fine aggregate when spraying SonoKote Micro primer. Always test adherence to painted surfaces before proceeding with application of finish coats.

1ST COAT / REPAINTS / WHITE & TRANSPARENT BASE: For walls that have been pre-painted with flat or matte finishes, SonoKote Matte for White & Transparent Base colors can be applied directly to surfaces without SonoKote Micro as a primer. Always test adherence to painted surfaces before proceeding with application of finish coats. Follow instructions above for BRUSH AND ROLLER APPLICATIONS for dilution rates for 1ST COAT / PRIMER COAT. Make sure to apply enough paint to fully cover the surfaces to be painted.

2ND COAT – WHITE & TRANSPARENT BASE: Follow guidelines as indicated in GENERAL APPLICATION INSTRUCTIONS for White and Transparent Bases.

COMMERCIAL HIGH TRAFFIC AREAS: To maximize durability and increase adherence and washability, it is suggested to prime with one (1) coat of SonoKote Micro primer diluted 30% with water, and allow to dry for 8 – 12 hours. Then, apply two (2) coats of SonoKote Matte. This primer enhances performance for maximum longevity but it is not required.

UNPAINTED WOOD

INTERIOR:

1ST COAT / PRIMER COAT – WHITE & TRANSPARENT BASE: Sand all wood surfaces as required to provide a smooth surface and lightly wipe wood surfaces with a damp cloth or tack cloth to remove all traces of dust. Fill all nail and screw holes with non-oil type putty or wood filler. Apply water based caulk as needed to fill all voids and cracks. Caulked areas may need at least 12 hours to properly dry. Unpainted wood can be primed with SonoKote Matte for most types of wood products. However, for wood products that do contain high natural resin content such as #2 white pine, yellow pine, heart of pine, and spruce, they require SonoKote Micro as a primer before application of the finish coats. Surface products to be painted must be tested prior to application of paint, or contact a manufacturer consultant. Always test adherence to any type of wood product prior to full commitment of finish coats.

Based on wood type as described above, apply either SonoKote Micro primer tinted if necessary*, diluted with 30% water or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours; or apply SonoKote Matte diluted with 30 – 40% water, or 4.5 – 6.0 liters of water per one (1) 15 liter bucket and allow to dry for at least 4 hours.

2ND COAT – WHITE & TRANSPARENT BASE: Apply SonoKote Matte as indicated in GENERAL APPLICATION INSTRUCTIONS. If a flat finish is desired as a trim finish. If a sheen finish is required, refer to SonoKote EggShell or Satin for application of finish coats on SonoKote Matte or SonoKote Micro.

When painting on wood it is suggested to adjust dilutions with water as necessary to achieve maximum effect for smoothness and coverage desired. Typical dilutions may be up or down by 5% as a rule.

EXTERIOR: SonoKote Matte cannot be used as an exterior primer nor be applied as a final finish paint for the exterior.

PAINTED WOOD

INTERIOR: Sand all wood surfaces as required to provide a smooth surface. Fill all nail and screw holes with non-oil type putty or wood filler. Apply water based caulk as needed to fill all voids and cracks. Paint all caulked areas as needed and allow to dry for at least 12 hours. Remove all dust from area to be painted. Lightly wipe wood surfaces with a damp cloth or tack cloth to remove all traces of dust. Spot prime any unpainted repairs, wood filler, caulk and prime (we recommend SonoKote Matte diluted 20 – 30% for interior use).

1ST COAT/PRIMER COAT – WHITE & TRANSPARENT BASE: For wood that has been pre-painted with eggshell, satin, semi-gloss or high gloss paints, oil or acrylic, SonoKote Micro primer should be applied prior to application. Lightly sand painted sheen surfaces before proceeding with SonoKote Micro primer. Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

For wood that has been painted with flat or matte finishes, SonoKote Micro primer may not be required. Always test adherence to painted surfaces before proceeding with application of primer coat.

2ND COAT – WHITE & TRANSPARENT BASE: Apply one coat of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS if a flat finish is desired as a trim finish. If a sheen finish is required, refer to SonoKote EggShell or Satin for application of finish coats on SonoKote Matte or SonoKote Micro.

When painting on wood it is suggested to adjust dilutions with water as necessary to achieve maximum effect for smoothness and coverage desired. Typical dilutions may be up or down by 5% as a rule.

CAULKS

SonoKote Matte will adhere to most non solvent-based caulks, acrylic caulks and some silicone water-based caulks. Always test product for adhesion verification prior to painting any surface. Silicone caulks cannot be painted with any type of paint.

HISTORICAL DECORATIVE EFFECTS / FINISHES

INTERIOR: SonoKote Matte can be used for hundreds of decorative finishes both for interior walls as well as unpainted wood surfaces. Decorative effects are generally achieved by various degrees of dilution with water, applying onto other SonoKote Mineral Paints & Primers, or directly onto wood surfaces with or without the use of SonoKote Primers. These types of decorative finishes have been in use for hundreds of years, and are typical of the historical finishes frequently observed since Medieval and Renaissance periods.

WALL SURFACES: SonoKote Matte can be diluted with water on average between 50% – 100% when applying on ROMABIO plasters and mineral paint products as a decorative finish. For example; SonoKote Matte diluted can be applied onto SonoKote Micro or Medium primers, SonoKote I & II, as well as SonoKote SuperFlat. It can also be applied onto all BioCements as well as BioMarmorinos. Applications are usually performed with brush techniques, that can include sponges and rags. For more pronounced decorative finishes, with greater chromatic variability, higher luminance, deeper color resonance, or to achieve effects with higher dilutions of water above 75% it is suggested to add Potassium Silicate Concentrate diluted 100% with water. This potassium silicate dilution is then mixed with 1/2 the requirement of water used in the total dilution required above of 100% for SonoKote Matte. See formula below.

DILUTION FORMULA GUIDELINES: Sample Dilution; 1 bucket, 15 liters of SonoKote Matte, needs a dilution of 100% water (or 15 liters of water added to one (1) bucket of 15 liters SonoKote Matte), to create a desired decorative effect applying with a large brush in a crisscross pattern onto a tinted base of SonoKote Micro or Medium. To increase and guarantee adherence above 50% dilution with water, and augment chromatic variability luminance and color resonance in terms of decorative effects, add 7.5 liters of clean water, plus 7.5 liters of pre-diluted





Potassium Silicate Concentrate (of which 3.75 liters is water, and the other 3.75 liters is Potassium Silicate). Or in simplification for this dilution formula; 15 liters of SonoKote Matte, 13 liters of clean water, and 2 liters of Pure Potassium Silicate Concentrate.

Using this dilution method with the addition of Potassium Silicate Concentrate will allow SonoKote Matte to be diluted up to 200% for use as a decorative application. Generally, for dilutions with water from 25% – 75% the use of White or Transparent Base can be used interchangeably without the need for the addition of Potassium Silicate Concentrate. Adding Potassium Silicate Concentrate serves only to increase the chromatic variability when applying decorative finishes. For dilutions above 75% with water, it is recommended to always add Pure Potassium Silicate Concentrate to the dilution. For dilutions above 100% it is recommended to use SonoKote Matte Transparent Base, always diluted with a combination of water and Potassium Silicate Concentrate.

WOOD SURFACES: SonoKote Matte can be applied to almost any type of wood without out a primer when using as a decorative finish. Diluted SonoKote Matte acts both as a paint when using dilutions of 20 – 30%, and as a stain when using dilutions above 40 – 50%+. Generally, dilutions on unpainted wood average between 50 – 100% when using SonoKote Matte as a stain. Applying these dilutions types onto wood will allow for a multitude of effects and also permits the following application of varied layers of paint products, manipulated to create beautiful effects, i.e. such as SonoKote SuperFlat, BioCalce Classico, EcoCalce S & Glaze, TerraMare Velatura and most can be sealed with LowCer Varnish or LowCera SoftWax. SonoKote Matte after application can be wiped with a rag or sponge, and/or lightly sanded, steelwooled, or scotchbrired. Using 00 or 000 grade steelwool, polishing in a single direction in line with the wood grain will permit various dimensions of transparency, and at the same time will result in a high luster polish due to the high mineral content in SonoKote Matte. Effects can be varied and require testing before a final decorative finish is acquired. Follow dilution mixing instructions above under DILUTION FORMULA GUIDELINES when diluting SonoKote Matte.

CEMENTITIOUS BOARD | MGO

INTERIOR: Guidelines for primed and unprimed cementitious or MGO boards.

PRE-PRIMER COAT: For unprimed cementitious and MGO boards, apply one (1) coat of EcoForte Consolidator or Potassium Silicate Concentrate diluted 100% with water, or 10 liters per one (1) 10 liter bucket. Apply with brush, roller or sprayer and allow to dry for 8 – 12 hours.

PRIMER COAT: For factory primed cementitious and MGO boards apply one (1) coat of BioGrip Micro as a primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30%, tinted if desired, and allow to dry for 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASES: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

REINFORCED CEMENT

INTERIOR: New cement surfaces should not be painted for about 28 days to ensure proper curing and drying. Follow instructions as indicated above for new cement stuccos. In many cases it may be recommended to apply TerraMare line products for 'Best Use' application for exterior paint applications on reinforced concrete surfaces.

PRE-PRIMER COAT: For best results apply Potassium Silicate Concentrate, diluted 100% with water, or (1:1), or 10 liters of water per one (1) 10 liter bucket as a preprimer, on all new cement surfaces, applying 2 – 3 coats in rapid succession, wet on wet, until substrate has arrived at full absorption, and allow to dry for at least 2 -3 days; or as an alternative apply one (1) coat EcoForte Consolidator with brush, roller or sprayer diluted 100% with water, or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate diluted 30%, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

EXTERIOR: It is not recommended to use SonoKote Matte for exterior application on reinforced cement surfaces. For application on newly poured cement, follow CAUTION! label under NEW CEMENT STUCCOS.

SLAKED LIME PLASTERS & STUCCOS / LIME PAINTS INTERIOR:

Painting guidelines for applying mineral paints over slaked lime paints & plasters, or NHL cements. Except for Lime Paints, SonoKote Matte can be applied directly onto any SonoKote plasters and cements.

PRE-PRIMER COAT: For Lime Paints such as BioCalce Classico, BioCalce A, it is required to apply one (1) coat of EcoForte Consolidator with brush, roller or sprayer diluted 100% with water (1:1), or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

NEW CEMENT STUCCOS

INTERIOR: New portland cement stucco should not be painted for about 21 – 28 days to ensure proper curing, anchoring and drying.

PRE-PRIMER COAT: Apply one (1) coat of Potassium Silicate Concentrate or EcoForte Consolidator with brush, roller or sprayer diluted 100% with water (1:1), or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS. Application for Interior Uses Only!

CAUTION!

New portland cement stuccos should be tested for pH using Phenolphthalein, also sold as an "alkalinity test kit". This product should be spot tested on all new portland cement stucco prior to the application of any type of finish, paint or stucco product. Concrete has a naturally high pH due to the calcium hydroxide formed when portland cement reacts with water. As the concrete reacts with carbon dioxide in the atmosphere, pH decreases to 8.5 – 10.5. When a 1% phenolphthalein solution is applied to uncured concrete, it turns bright pink/ purple; if it remains colorless, it shows that the concrete has undergone correct surface carbonation. When the test indicates bright pink or purple, this indicates that no paint or plaster product of any type should be applied to the concrete until surface carbonation has been completed, which usually occurs after 21 – 28 days after final installation.

DECAYING OR CRUMBLING STUCCOS OR POWDERY SURFACES

INTERIOR: Chalking surfaces, which could prevent the proper anchoring of the base coating must have damaged and chalky portions be removed by pressure washing and scraping. If pressure washing is not an option for interior surfaces, scrub affected areas with a stiff brush and white vinegar or muriatic acid (1 part muriatic acid and 6 – 7 parts water), and after 3 -5 minutes rinse several times with a large sponge and clean water.

PRE-PRIMER COATS: For unpainted stuccos apply Potassium Silicate Concentrate diluted 100% with water (1:1) on all damaged surfaces, or 10 liters of water to one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession, until substrate has arrived at full absorption, and allow to dry for at least 2 – 3 days. For older, non-acrylic painted stuccos or painted stuccos with a flat, absorbent acrylic paint, apply one (1) coat EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket, and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

COATINGS WITH EFFLORESCENCE

INTERIOR: Cement surfaces showing efflorescence should be aggressively cleaned with a high pressure washer or a stiff brush, and then the efflorescence should be treated using a diluted muriatic acid, 1 part muriatic acid and 6 – 7 parts water, and allow to react for 3 – 5 minutes. Thoroughly rinse treated areas with water.





PRE-PRIMER COATS: For unpainted stuccos apply Potassium Silicate Concentrate diluted 100% with water (1:1) on all damaged surfaces, or 10 liters of water to one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession, until substrate has arrived at full absorption, and allow to dry for at least 2 – 3 days. For older, non-acrylic painted stuccos or painted stuccos with a flat, absorbent acrylic paint, apply one (1) coat EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket, and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

For coatings on surfaces damaged by the saltpeter or efflorescence no guarantees can be provided.

AGED CEMENT STUCCOS

INTERIOR: Dirty and/or contaminated surfaces should be treated as a priority prior to any interventions of replacing or repairing stucco. All surfaces should be cleaned and any attached algae removed manually or by mechanical means, i.e., with a high-pressure washer. Stucco damaged by algae or mold should be treated with EcoDis after pressure washing. These instructions are based on unpainted portland based type cement stuccos.

PRE-PRIMER COAT : When new stucco repairs are performed on older (nonpainted) cement stuccos, complete all removal of damaged stucco, rinse surfaces of dust, and apply EcoForte Consolidator to older surfaces prior to applying new cement stucco or make repairs. Pre-prime existing surfaces applying one (1) coat of EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours.

PRE-PRIMER COAT / REPAIRS: Allow new cement repairs to fully dry and cure according to instructions indicated under section; NEW CEMENT STUCCOS. Apply EcoForte Consolidator diluted as indicated onto any new stucco repairs and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS / WHITE & TRANSPARENT BASE: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

STUCCO REPAIRS

See AGED CEMENT STUCCOS above.

ADOBE BRICK

INTERIOR: Adobe brick being made of a composite of dirt/sand and inorganic material is extremely susceptible to damages caused by water on exterior surfaces. Potassium silicate paints are ideal because they will carbonize to mineral content in the clay brick, creating consolidation, strengthening the external surfaces and allow them to be water resistant and permeable when painted with SonoKote Matte.

PRE-PRIMER COAT: For best results apply Potassium Silicate Concentrate, diluted 100% with water, o (1:1), or 10 liters of water per one (1) 10 liter bucket as a pre-primer, on all new, unpainted surfaces, applying 2 – 3 coats in rapid succession, wet on wet, until substrate has arrived at full absorption, and allow to dry for at least 2 -3 days; or as an alternative apply one (1) coat EcoForte Consolidator with brush, roller or sprayer diluted 100% with water, or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

AUTOCLAVED AERATED CONCRETE

INTERIOR Autoclaved aerated concrete cannot be painted, plastered or stuccoed directly onto non-consolidated and unprimed surfaces. Using SonoKote Specialty Products and Primers applied onto autoclaved aerated concrete will permit the proper application of any type of paint, plaster or stucco to be applied the surface.

PRE-PRIMER COAT: It is recommended to apply one (1) coat of Potassium Silicate Concentrate diluted 100% with water, or 10 liters per one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession until aerated concrete has completely and evenly absorbed the Potassium Silicate Concentrate into surface. This process will double the strength and durability of the surfaces of aerated concrete, as well as increase adhesion of any type of applied material. Apply Potassium Silicate Concentrate with a brush, roller, or sprayer and allow to dry for 2 – 3 days.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

BRICK

ABSORBENT BRICK/ INTERIOR: For absorbent, unpainted, integral brick, preprimers or primers are not required in the application of SonoKote Matte. Apply SonoKote Matte directly to brick facade following instructions as indicated in GENERAL APPLICATION INSTRUCTIONS.

PRE-PRIMER COATS: None

PRIMER COAT: None

1ST & 2ND COATS - WHITE & TRANSPARENT BASES: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

Testing for Absorption: Spray brick surface with water for a couple of minutes to determine if water absorbs rapidly into brick. Brick surfaces will appear to be dry if the brick is absorbent. If after spraying water onto the brick and the brick remains wet, or has not rapidly absorbed water into the surface, then this indicates that SonoKote Micro will be required as a primer before proceeding with SonoKote Matte.

NON ABSORBENT OR EXTRUDED BRICK / INTERIOR: For brick that is nonabsorbent, such as red common brick, glazed brick, or any smooth brick that has a slight sheen, and has been pressure extruded or fired at extremely high temperatures, will not absorb water as a general rule. Testing can be performed by wetting a brick area with a water hose to determine if water absorbs immediately within 1 – 2 minutes, leaving no trace of water sitting on the surface. Positive absorption indicates no need to apply a SonoKote Micro primer. If water sits on the surface after wetting and water has not absorbed, then SonoKote Micro should be used as a primer in such cases.

PRIMER COAT: Apply one (1) coat of SonoKote Micro primer, tinted if necessary*, with brush, roller or approved sprayer for fine aggregate, diluted 30% with water, or 4.5 liters per one (1) 15 liter bucket and allow to dry for at least 8 – 12 hours.

1ST & 2ND COATS - WHITE & TRANSPARENT BASES: Apply two (2) coats of SonoKote Matte according to GENERAL APPLICATION INSTRUCTIONS.

STORAGE

Store in a cool, dry place, protected from frost. Close the open containers with care. Store liquids only in plastic. Transfer unused paint into smaller containers to create a full bucket, reducing exposure to air. For best results turn bucket upside-down to prevent air leaking into container.

WARNING!

Do not apply any products in direct exposure to strong/hot sunlight, rain, mist, high humidity (> 80%), at dew-point formation, or in the presence of strong wind. Beware of the danger of frost overnight. If applied by roller or sprayer, protect surrounding surfaces as necessary. Protect eyes and skin from splashes of paint. Cover glass, ceramic, natural stone, brick, metal, wood, painted surfaces and glazed tiles. Clean affected areas immediately with water. Do not work in air temperature lower than 10°C / 50°F and not above 31°C / 88°F. Clean work tools with water immediately after use. Keep out of reach of children. In case of contact with eyes and skin, wash immediately with plenty of water. In cases of consumption, consult a Doctor or call the CDC Poison Center (see Safety Data Sheet). If you scrape, sand or remove old paint from any surface, 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. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Keep out of reach of children.





PRODUCT LIMITATIONS

Only dilute the amount of paint material required to paint surface area as needed. Unopened, unused, and undiluted SonoKote Mineral Paints can be stored in their original container for an extended time period. Once the product has been removed from its container and is diluted, the diluted material cannot be stored for extended time periods without the risk of forming mold. Undiluted paint material can be stored as long as the remnant is repackaged and stored in a completely filled plastic container of product. For best results turn container upside down to help prevent air to enter into the bucket via the paint can lid causing spoilage or premature drying. After water has been added for dilution, SonoKote cannot guarantee the shelf life of the product.

WATER CONTAMINATION HAZARD

CLASS 1

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of information required by the CPR, and it is classified as a non-hazardous material.

PRODUCT CONTAMINATION HAZARD

CODE CER / NORMATIVE EAC / Decision commuted by the Commission n. 2000/532/CE

NOT DANGEROUS

The directive 75/442/CEE, 08 01 production, disposal, formulation, supply, use, and removal of paints and varnishes: 10 13 04 for removal of paints and varnishes; 10 13 04 disposal of lime and hydrated lime products.

DISPOSAL

Do not enter product in its original concentration into drains or open waters. Do not store at public waste disposal sites. In case of conduction into adapted biological purification plants no disturbances need be expected. The preparation has been estimated by conventional method (calculated procedure) of EG directive 1999/45/EG and is classified as non-hazardous for the environment. Dispose according to local regulations. Empty cans should be disposed of according to local regulations; plastic buckets are 100% PP, NO. 5, approved for food storage; 100% recyclable if cleaned thoroughly prior to recycling.

ADDITIONAL INFORMATION

This Technical Sheet lists data collected on the basis of technique and experience. Given the multiplicity of use of the product it cannot be binding and the user cannot refrain from using common sense and experience for the individual case. This information shall not constitute any legal obligation and no obligation from the seller or point of purchase, or any agreements inferred by employees who sale this product. Insurance or guarantees issued by our employees should always be confirmed separately in writing. The user prior to purchase must verify any information about product adaptability and use of the product. Check the exact consumption of product for the surface where product may be applied to determine amount of products needed. **The user must verify the color matching before starting work. No refunds or exchanges will be provided for tinted products after they have been consumed or applied.**

MANUFACTURER

Rendered by Manufacturer and Released to: Acoustical Surfaces, Inc.
123 Columbia Court North, Chaska, MN 55318

**NOTE: For very bright colors not selected from the SonoKote color palette, it is recommended that the primer is tinted 25 - 75% with the final formulation of the SonoKote Matte color to achieve maximum coverage.*



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