



## MICROGRIP PRIMER TECHNICAL DATA SHEET | DIN 18363

### Interior/ Exterior Pure Potassium Silicate Primer with Mica

#### PRODUCT FEATURES

MicroGrip Primer is a professional-grade, single-coat mineral primer based on pure potassium silicate with fine mica granulation (0.125mm). Specifically formulated for interior and exterior applications, it creates a permanent chemical bond with mineral substrates through petrification (water glass effect), providing superior adhesion compared to conventional acrylic primers.

This primer is designed as an anchoring and consolidation coat for mineral paints, lime-based products, siloxane paints, and slaked lime plasters when applied to Portland Cement surfaces, drywall, wood, and masonry.

#### FIELDS OF APPLICATION

*The perfect base for mineral or lime paints and slaked lime plasters.*

Ideal for use on:

New or Painted drywall (interior/exterior)  
 Portland Concrete/Stucco  
 Painted or Unpainted Wood surfaces (interior/exterior)  
 Sealed or pre-painted Masonry and Brick  
 CMU blocks and Cementitious Boards  
 Blue or Green Drywall (for plasters)  
 Aerated Concrete (AAC/MGO)  
 Acrylic-painted Stucco

#### SHEEN / FINISH

Very flat

#### TYPE OF PRODUCT

Potassium Silicate binder according to UNI 8681, stabilized with binding agent polymeric dispersion based (fossil resources replaced with sustainable biomass based on "mass balancing assessment")

#### COLOR

*White Base only. MicroGrip Primer should generally not be tinted. Maximum tint colorant: 3% (46 g/l or 1.6 oz/l). Use only for approximate coloration as primer base.*

Off White (OW), Color Oxides (CO), Grey Oxides (GO): up to 50% of formula.

Dark Oxides (DO): 12-25% only

Extra Dark Oxides (XDO): Cannot be tinted.

#### PACKAGING

Plastic buckets in 1L (1 quart), 2.5L (0.67 gal) and 15L (4 gal) sizes. (food-grade PP #5)

#### CONDITIONS FOR APPLICATION

- Air temperature: Min. +55°F / Max. +88°F.
- Surface temperature: Min. +41°F / Max. +85°F.
- Relative humidity of the air: <80%.
- R.H. <65%.
- Avoid applying where there is surface condensation or directly under the sun.

#### TOOLS

*Apply with brush, roller or with an appropriate sprayer. New sprayer tips should be used to prevent product waste and provide for a perfect finish.*

Recommended Specs:

Airless Sprayer: min 3000psi w/.019" - .021" (0.48mm - 0.53mm) tip opening

HPLV Sprayer: 1.4mm - 1.5mm tip opening

Brush: Professional, high-quality, synthetic bristles

Roller: Professional, high-quality, mohair or synthetic nap

#### COVERAGE\*

*Actual coverage will vary depending upon application method, surface texture, and absorption.*

- 15L (4 Gal) coverage = 1,050-1800 sq/ft
- 2.5L (0.67 Gal) coverage = 175-300 sq/ft
- 1L (1 Qt) coverage = 70-120 sq/ft

\*Recommended to test product on actual surface to determine the exact consumption.

#### STORAGE

Store in a cool, dry place. Protect from frost. Securely close open containers with care. Store upside down to minimize air exposure. DO NOT store diluted product.

#### SHELF LIFE

3 Years



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#### DILUTION INSTRUCTIONS

Start with 25% dilution (1 part product to ¼ part water or 4:1). Dilutions may be adjusted as needed to for ease of use, job site requirements, and desired effect. Minimum dilution should be 20% and not exceed 30% dilution.

#### PREPARATION OF THE SUBSTRATE

(Reference environmental conditions T=55°F, RH=60%)

The surface must be clean, dry and cohesive.

- For mold and/or moss, treat the surface with appropriate products like Romabio Algae & Moss Cleaner.
- For existing mineral or lime painted surfaces, scrape loose material, pressure wash if possible.
- Remove the dust, smog, salt bloom or flaking old paint by brushing or washing.
- For freestanding walls or in coastal areas, proper is cleaning essential. Pressure wash, apply a white vinegar solution or diluted muriatic acid (1:6-7) for 3-5 minutes, rinse **thoroughly** multiple times. Dry completely 8-12hrs. Then follow GENERAL Application Instructions.

#### PRODUCT LIMITATIONS

1. Do not apply on fresh/new or essentially alkaline substrates; wait for a maturation period (generally 4 weeks).
2. Do not apply in the presence of rising damp or during direct exposure to strong wind, sunlight, rain, mist, or high humidity (>80%)
3. **Does not protect the substrate from carbon dioxide; the main cause of degradation of concrete.**
4. MicroGrip is NOT a stain blocking primer but can act as a consolidation layer between an appropriate stain blocking primer and Romabio mineral and lime paints or plasters.

#### IMPORTANT NOTE:

In the case of surfaces with high absorption, pay attention to the different degree of absorption and roughness of the surface; it may be necessary to apply a base coat of diluted transparent pre-primer "ECOFORTE" diluted 1/1 with water to uniform the absorption.

#### APPLICATION INSTRUCTIONS

##### GENERAL:

Apply MicroGrip Primer, diluted 20–30% with clean water as a bonding coat prior to applying mineral paints or plasters. Apply with brush, roller, or a specified sprayer approved for fine aggregate. Allow to dry 8–12 hours. During application, make sure the diluted material is mixed frequently.

##### UNPAINTED WOOD:

Sand surfaces as needed for smooth finish then wipe with damp cloth to remove all dust. Fill nail/screw holes with non-oil putty or water-based caulk to voids (allow 12 hours drying). Follow GENERAL Application Instructions above.

#### DRYING TIME

Dries to the touch in one hour; can be over-coated after 8-10 hours under ideal conditions (68°F- RH 60%) .

#### CONSIDERATIONS FOR SPECIALIZED OR COMPROMISED SUBSTRATES

EIFS / Synthetic Stucco: Most EIFS has acrylic cement resin coat creating plastic appearance. Re-coats typically use acrylic/elastomeric paints. EIFS can be primed with MicroGrip and painted with Masonry Flat for a more authentic stucco look while maintaining water resistance and permeability. Follow GENERAL Application Instructions above.

Adobe / Mud Brick: MicroGrip is excellent for adobe - penetrates deep for dust-free surface. PRE-PRIMER: Potassium Silicate Concentrate 100%, wet-on-wet, 2-3 coats until absorption. Doubles adobe strength. Allow 2-3 days. PRIMER: Two coats MicroGrip 25-30%.

Decaying/Powdery Surfaces: Chalking surfaces must have damaged portions removed by pressure washing/scraping. If interior (no pressure wash option): scrub with vinegar or muriatic acid (1:6-7), wait 3-5 minutes, rinse. PRE-PRIMER (unpainted): Potassium Silicate Concentrate 100%, wet-on-wet, 2-3 coats, 2-3 days dry. For old acrylic-painted: EcoForte 100%, dry 8-12hrs. PRIMER: 1-2 coats MicroGrip 25-30%. Note: No guarantees for surfaces damaged by saltpeter/efflorescence.



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CRITERIA	INT. STANDARD	VALUE	UNIT
VOC (not including tint pigments) Ready to Use	2004/42/CE	0,3	g/l
Water Absorption Coefficient	EN 1062-3:2001	0,62	kg/(m <sup>2</sup> • √h)
Vapor Permeability	DIN 52615- DIN 18550, EN ISO 7783- 2	Sd 0.14	m
pH Value	DIN 19266	11-11,5	–
Natural Resistance to Mold	UNI 9805 – UNI 10795	OK	–
Specific Gravity (23°C)	EN ISO 2811- 2	1.6	Kg/Lt.
Mineral Finish	DIN 55945	< 8%	Thickening Agent
Granulation	DIN 19643	0,08	mm
Gloss Level	DIN 55945	< 5 Gloss	Very Flat
Exterior Paint With Mineral Finish	DIN 18363 – DIN EN1062-1	< 5% organic substances content	Comply with regulations
Reaction to Fire	EN 13501- 1:2002	A1	Incombustible
Toxicity	CEE 88/379	0%	–
Environmental Impact		fossil resource saving product by using renewable raw materials in the value chain.	
Certification APEO (Alkyl Phenol Ethoxylates)	—	0%	—
Does not contain chemicals that can aggravate or cause asthma, see NIH Asthma Report 2012.			

### FIRST AID

**Eye Contact:** Flush with water or saline for 15+ minutes. Do NOT rub. Seek medical attention.

**Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing.

**Ingestion:** Do NOT induce vomiting. Drink water. Call CDC Poison Center immediately 1-800-222-1222.

**Inhalation:** Move to fresh air. If difficulty breathing, seek medical attention.

### WARNING

Keep out of reach of children. Wear eye protection. Use gloves when handling and avoid skin contact. Use NIOSH-approved respirator when sanding old painted surfaces (lead hazard). In cases of consumption, call a doctor and the CDC Poison Center. 1-800-222-1222.

### DISPOSAL

Do not enter product in its original concentration into drains or open waters. Do not store at public waste disposal sites. Dispose according to local regulations. Plastic buckets are 100% PBS, NO. 5; 100% recyclable if cleaned thoroughly prior to recycling. Harmful to aquatic organisms, may cause long-term negative effects in the aquatic environment / Keep out of the reach of children / Do not dispose of residues in drains / Wear suitable protective clothing and gloves / If swallowed, seek medical advice immediately and show container or label. The product must be transported, used and stored in accordance with current legislation concerning health and safety; let residues dry out completely and treat them as special waste. For further information, consult the MSDS.

This Technical Sheet lists data collected on the basis of technique and experience. Given the multiplicity of use of the product they cannot be binding. 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. Check the exact consumption of product for the surface where product may be applied to determine the amount of product needed. The color matching must be verified by the user **before** starting work. No refunds or exchanges will be provided for tinted products after they have been consumed or applied.

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