



MINERAL SHIELD TECHNICAL DATA SHEET | Interior/ Exterior Fluorinated Coating (UNI EN 206)

PRODUCT FEATURES

Romabio Mineral Shield is a non-toxic, invisible coating that locks and protects beautiful Romabio mineral paint finishes from natural patina, or weathering created by water. The breathable coating repels water droplets but still allows water vapor to pass through, protecting the painted surface and preventing the growth of algae, moss, and mold.

Mineral Shield will not change the sheen of the finish or texture of the surface, thus preserving the beauty of a Romabio paint application. It also protects all lime-based coatings—such as Romabio Classico Limewash—from temporary discoloration that occurs when the surface is wet from rain and water absorption.

FIELDS OF APPLICATION

Romabio Mineral Shield is formulated with a special blend of fluorinated compounds and additives to produce an invisible coating weatherproof treatment. This special blend provides superior performance and protection against staining, growth of algae and moss, efflorescence, freeze/thaw, and force wind driven rain.

Romabio Mineral Shield is suitable for protecting vertical surfaces indoors and outdoors in any climatic and environmental conditions.

Ideal for use on brick, concrete, stucco, slate, cultured, natural stone and to protect mineral paints. It may be applied to absorbent mineral and stone surfaces, bricks, concrete, cellular concrete, reinforced concrete, limestone and sandstone, exposed plasterwork and mineral paints.

It should not be applied over acrylic old paint and gypsum. It should not be applied over non-absorbent surfaces (polished marble, granite).

CONDITIONS FOR APPLICATION

- Air temperature: Min. +50 °F / Max. +95 °F.
- Relative humidity of the air: <80%.
- Temperature of surface to be treated: Min. +50 °F / Max. +95 °F.
- Humidity of surface to be treated: <10%.
- Avoid applying where there is surface condensation or directly under the sun.

APPLICATION INSTRUCTIONS

Properly prepare and clean the surface for application. The surface should be clean, dry, and free from dirt and all loose particles

1. Ready to use. DO NOT DILUTE WITH WATER. Protect glass, wood surfaces, grass, and shrubbery from overspray. This product will not damage asphalt shingles
2. Can be applied with ordinary garden pump sprayer or brush. If applied with garden pump sprayer, eliminate most of the pressure at the spray nozzle and operate at the lowest pressure on the tank. The nozzle should be opened to a coarse spray adjustment. For even coating of material, start at the bottom of the wall and hold the spray at an angle to avoid splashing. It is important to hold the spray tip close to the surface to avoid run off. If applied with a brush, flow on liberally – do not brush out – to ensure even coating of the surface
3. If a second coat is applied, apply wet on wet within five minutes

Application Temperature: Apply in temperatures above 10°C / 50°F and below 35°C / 95°F.



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SURFACE PREPARATION

All previous coatings except sound and firm cement base materials must be removed. The surface should be clean, dry, and free from dirt, mildew, and all loose particles. Cracks, holes, and loose mortar joints should be repaired using a suitable concrete patch or mortar mix. For best results, Mineral Shield should be applied following a rain-free period of at least 2 days.

EFFLORESCENCE

A white, powdery, crystal-like deposit visible on the masonry surface must be removed. Buffer acid, used according to manufacturer's directions, are effective efflorescence removal agents. All masonry surfaces are subject to occurrences of efflorescence.

STONE OR BRICK SURFACES

Dust and clean the surfaces; if there is a patina of dirt daubs or scales, etc., clean with sandblaster or water under pressure or chemical cleaning. It is advisable to effect a preliminary test to establish the most effective method and type of cleaning. If there is algae, moss or mold, first treat the surface with Romabio Algae & Moss Cleaner.

PAINTED SURFACES

In the case of newly applied lime or mineral based coatings, wait at least 10 days from the last coat before applying the product.

COVERAGE

- Approximately 150-250 sq/ft per gallon with average absorption
- Actual coverage will vary depending upon application method, surface texture, and absorption
- Recommended to test product on actual surface to determine the exact consumption

PACKAGING

Plastic buckets 1 and 5 gallons.

STORAGE

Store in a cool, dry and protected from frost. Close the open containers with care.

SHELF LIFE: 2 years Warning!

TYPE OF PRODUCT

Product based on fluorinated compounds and additives (DC-OIT and IPBC) diluted in an inert mixture of water.

SHEEN FINISH

Completely neutral, does not alter the sheen of the substrate.

COLOR

The product is supplied without color. It cannot be tinted.

TOOLS

Apply with brush or with an appropriate sprayer and sprayer tip. All tools should be cleaned using water immediately after use.

DRYING TIME

Product is usually tack free within 4 – 8 hours depending on humidity. Maximum cure and dry time will be prolonged when slightly humid and damp, cool conditions prevail.



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TVOC & VOC	2004/42/CE –ISO 11890-2	???	g/l
Surface Retention Smog/Dirt	EN 10795	> 15	High
% Weight Solids		+7% ± 2	
Drying at Low Temperature	UNI 10793	Yes	–
Application Quality	UNI 10794	Excellent	–
pH Value	DIN 19266	7	–
Alkaline Resistance	UNI 10795	Yes	–
Specific Gravity (23°C)	EN ISO 2811-2	0.85	g/ml
Gloss Level	UNI EN ISO 2813	0	
Reaction to Fire	EN 13501-1:2002 A1		Incombustible
Toxicity	EN 13501-1:2002	???	–
Resistance to Chemical Agents	ONORM A 1605-15 (1B1)	Good	–
APEO (Alkyl Phenol Ethoxylates)	–	0%*	Low Content
PEG (Polyethylene Glycol)	–	0%*	Low Content
PG (Propylene Glycol)	–	0%*	Low Content
Formaldehyde	–	0%*	Low Content
Biocides	–	0.5%	Low Content

Warning!

Do not apply any products in direct exposure to strong/hot sunlight, rain, high humidity (mist) or in the presence of strong wind. Beware of the danger of frost overnight. If applied by 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 that are not to be painted. Clean affected areas immediately with water. Prominent elements of the building (cornices, parapets, etc.) should be treated with skill, covering flashings, gutters, copper coatings, etc. 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)

FIRST AID

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean contaminated shoes. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, Call poison control center, hospital emergency room, or physician immediately. If swallowed, do not induce vomiting. Call poison control center, hospital emergency room, or physician immediately. If spilled, contain spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.