



S2000 MINERAL PAINT

NATURAL INORGANIC MINERAL CRYSTALIZING PAINT FOR WALLS

USES

1. For preservation of bridge and heritage buildings
2. Concrete façades, lime or cement mortar, brick, gypsum plaster and pre-cast panels
3. Ceiling and perimeter walls to prevent mould growth

FEATURES

1. Non-reflective, odourless, natural matte finish, no VOC content (Green Product)
2. Can be tinted with inorganic pigments to achieve preferred colour.
3. Primer is not needed; just paint 3 coats thinly and directly over cement surface.
4. Resistant to peeling or flaking. Excellent adhesion to cement substrates, becoming part of them
5. Non-static; will not attract dirt from the air and will look clean after many years.
6. Naturally resistant to mould & algae growth
7. Forms crystals that allows water vapour to breathe out, keeping the building dry and healthy.
8. Safe to use indoors as it does not burn or emit noxious fumes when exposed to fire.
9. Increases resistance to acid rain attack, giving long-term protection of 10 to 20 years.



Suitable for heritage buildings



Super-matte non-static finish



Used on Philip Street Temple Walls



Used on Taoist Temple Walls
at Telok Ayer Street



Used as coating on parapet wall



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ISO 14001:2015

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APPLICATION METHOD

1. New cement mortar renders require a 3 to 4-week waiting period before painting.
2. Remove existing PU and acrylic paint.
3. Ensure surface roughness and porosity to allow good penetration and adhesion of the coating.
4. Remove surface painted with lime wash before applying a coat of S2000P PRIMER diluted with 50% of water.
5. For gypsum plaster surfaces, apply one coat of S2000P PRIMER before applying S2000.
6. Apply thinly. Thick coatings will result in powdery finishes.
7. S2000 comes in white color, but can be tinted with color pigment. A higher dose of pigment will cause powdery surfaces after painting.
8. Use brushes or paint rollers; do not spray.
9. It is recommended to apply a coat of S2000P PRIMER diluted with 50% of water on surfaces of lime or cement mortar, concrete, cement renders, bricks, etc., so as to stabilize absorption and reinforce the surfaces.

Not suitable for coating over: synthetic paint, fiberglass, & water repellent treated surfaces.

PACKING

5 kg 20 kg

REMARKS

- Use protective sheets to avoid staining surrounding areas.
- Special care should be taken with glass, ceramic, natural stone, lacquer and metal surfaces.
- Any splashing should be rinsed with water immediately.
- Although the application can be done on slightly damp surfaces, take care to avoid any excessive moisture in them.
- The full curing of the applied coating occurs 20 days after the product is applied.

SAFETY PRECAUTIONS

- Wear protective gear to protect the eyes and skin.
- In case of contact, rinse with water immediately.

Above are our recommendations based on in-house testing and experience.

If in doubt, please do a preliminary testing before use.



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CARPARK WALLS AT SINGPOST CENTRE—PAINT PREVENTS DIRT PICKUP



2016-4 Painting in Progress



2020 - Walls remain clean

COMMON APPLICATION MISTAKES

Do not paint S2000 over existing polymer paint:

- Polymer paint is food to bacteria. Algae or mold will grow on it and leach out through S2000, as it is a breathable crystal-forming paint which allows vapor and mold to ooze out.
- Kill existing algae or mold with 10% Bleaching solution. Allow 1 day for the reaction before painting with S2000.
- It is better to remove the old polymer (or organic polymer paint) before applying S2000, as the high alkalinity of S2000 may soften and cause the polymer paint to peel.

COMMON RESIN PAINT DEFECTS RESULTING FROM MISTAKES IN APPLICATION



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WEATHERING & STREAKING TEST:

Test: Painting S2000 on the wall to check on the streaking resistance.

Result: S2000 resists algae growth even after 2 years of weathering.

S2000 is not resistant to streaking stains.

Dirt streak developed over the rain water flow line over a 6-month period.

(It can be cleaned with detergent.)

Prevention: A coping above the painted area is needed to prevent flowing rain water and streaking.



Water repelling



Resists algae growth



Streaking test



Resistant to fire



*No primer needed
for concrete*



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COMPARISON BETWEEN SILICATE AND SILICONE BASED PAINTS

<i>SILICATE-BASED</i>	<i>SILICONE-BASED</i>
VOC Free.	Contains VOC.
Has waterproofing properties.	Has water repelling properties only.
Inhibits growth of micro-organisms.	Promotes growth of micro-organisms.
Non-flammable. Natural Mineral product.	Flammable. Petroleum product from the refinery.
Can be applied on damp surfaces.	Not suitable for application on damp surfaces.
Does not form surface film. Chemically bonds and	Forms thin plastic film.
Penetrates into the substrate, adheres very	Coats substrate surface only. De-bonds easily.

COMPARISON BETWEEN NATURAL MINERAL SILICATE AND REGULAR ACRYLIC/ LATEX PAINTS

	<i>NATURAL MINERAL SILICATE</i>	<i>ACRYLIC/ LATEX</i>
Formation	Chemically bonds and crystalizes onto the cement, thus making the coating an integral part of substrate.	Forms a thin plastic film by the evaporation of water.
Breathability	Allows water vapor permeation. Wall is dry and healthy.	Restricts water vapor diffusion. Ended with wet wall, it blisters easily.
Color Fast	Colors do not fade due to excellent resistance to UV.	Not UV stable. Significant fading of colors will occur over time.
Dirt Retention	Does not carry electrostatic charge that attracts dust.	Attracts dust due to negative electrostatic charge found on the plastic film surface.
Algae and Fungal Growth	Natural mineral, does not promote growth of micro-organism.	Promotes growth of micro-organisms due to its organic composition.
Acid and Alkalis	Highly resistant to strong acids and strong alkalis.	Not as resistant to strong acids and strong alkalis.
Fire Retardant	Non-combustible; does not emit smoke or any toxic gases.	Petrochemical product; burns and smokes easily in a fire.
Light Reflectance	Reflects light and heat due to its micro-crystalline structure.	Absorbs a proportion of light rather than reflecting it.

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TECHNICAL DATA

Nature	Inorganic silicate
Diluent	Water
Application	Brush, roller
Application Temperatures	+10 to +35°C
Surface drying time (EN ISO 1517)	< 1 hour
Coverage	5 m ² / kg at 60 micron of dry film thickness
Water vapor permeability (EN ISO 7783-1/-2) (Equivalent air barrier)	SD < 5 meters Class I (EN 1504-2) Permeable to water vapor
Water permeability (EN 1062-3)	< 0.1 kg/ m ² . h0,5 Impermeable to water (EN 1504-2)
Adhesion to concrete support (EN 1542)	3.5 MPa(A:B/C:50%:50%
Hazardous substances (EN 1504-2)	Complies with paragraph 5.3 of EN 1504-2 Standard
Color	White, Super Matte Finish. Color can be added.

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