

S 2000 SILICATE PAINT

NATURAL MINERAL CRYSTALIZING PAINT FOR WALLS

USES

1. Odours-Free: Excellent for use on outdoor and indoor, façade and perimeter wall
2. Non-Static: Does not attract dirt particles, good for basement car park coating.
3. Waterproofing & Finishing Coat: for Concrete Façade, lime or cement mortar, brick, gypsum plaster, ceiling in the toilet and pre-cast panel.

FEATURES

1. No Cement Skim Coat & Primer needed, just paint 3 coats directly over cement surface to complete the job.
2. Resists algae growth, peeling, scratches, withstand high pressure jet cleaning, water repelling.
3. Non-Static mineral product, does not attract dirt, always remain clean. especially for the basement carpark.
4. Form crystal that allows water vapour to breath out, keeping the building in a dry healthy condition, prevented acid rain attack.
5. Resist peel or flake. Excellent adhesion to a cement substrates, becoming part of them.
6. Non reflective, Dull Flat Matt Finish.
7. Does not burn and emit noxious fumes when exposed to fire, safe to use in indoor theatre.
8. Long-term protection of 10 to 20 years. May become powdery over the years.

High Performance product



Suitable for preservation of heritage buildings similar to the picture above.



CERT NO.: XX-XXXX
ISO 14001:2004

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SINGPOST'S Car Park Resist Dirt Pickup.

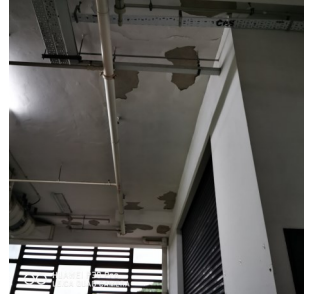


Painting in Progress



2 years Later

Common Resin Paint's Defects



APPLICATION METHODS

1. Surfaces must be dry and free from grease, oil, loose particles, dust or other contaminants.
2. Surfaces must have a certain roughness and porosity to allow good penetration and adhesion of the coating.
3. New cement mortar renders require a waiting period of 3 to 4 weeks before painting.
4. Surfaces painted with Lime Wash should be removed with a brush and apply a coat of **S2000 P PRIMER** diluted with 50% of water.
5. For gypsum plaster surfaces, apply one coat of S2000P PRIMER before applying S2000.
6. Apply thinly, sufficient for the cement to absorb the paint. over coating it will become powdery.
7. Use Brushes or Paint Roller, do not spray.
8. **Not suitable for: Synthetic Paint, fiberglass, & Water Repellent treated surfaces. All existing synthetic paint need to remove until bare cement surface.**

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PROBLEMS ENCOUNTERED IN PAINTING

S2000 painted over existing polymer paint:

1. Polymer paint is food to the bacteria, algae or mold will growth on it and leach out through **S2000**, as it is a crystal forming paint, non air tight, which allow vapor and mold to flow out.
2. To kill existing algae or mold with 10% Bleaching solution, allow 1 day for the reaction, before painting with **S2000**.
3. It is better to remove the old polymer (or organic polymer paint) before apply **S2000**, as the high alkalinity of **S2000** may cause the polymer paint to peel.
4. **S2000** come in white color, we can only add a small amount of color pigment to tint it, heavy doze of pigment will cause the pigment to fall out after painting.

PRECAUTION

- The paint is alkaline in nature, wear protective gear to protect the eye 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.

PACKING: 5 kg-pail 20 kg - pail



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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 bond and crystalized onto the cement.	Forms thin plastic film.
Penetrates into the substrate, adhere very strongly.	Coats substrate surface only. De-bond easily.

COMPARISON BETWEEN NATURAL MINERAL SILICATE AND REGULAR ACRYLIC/ LATEX PAINTS

	<i>NATURAL MINERAL SILICATE</i>	<i>ACRYLIC/ LATEX</i>
Formation	Chemically bond and crystalized 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 blistered 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 alkaline.	Not as resistant to strong acids and strong alkaline.
Fire Retardant	Non-combustible, does not emit smoke or any toxic gases.	Petrochemicals product, burn and smoke 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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- On painted surfaces with acrylic paints, all the badly adhered paint has to be removed. In this case, S2000 is only adhering to the acrylic paint, but not penetrating.
- It is recommended to apply a coat of **S2000 P PRIMER** diluted with 50% of water on surfaces of lime or cement mortar, concrete, cement renders, bricks, etc., as this way the absorption will be regularized and surfaces will be reinforced.

REMARKS

- To avoid staining of the surrounding area, use protective sheeting.
- 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 with slightly damp surfaces, take care to avoid any excessive moisture in them.
- The full curing of the applied coating occurs after **20 days** the product is applied.

		TECH- NICAL 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)	S _D < 5 meters Class I (EN 1504-2) Permeable to water vapor	
Water permeability (EN 1062-3)	< 0,1 kg/ m ² .h ^{0,5} 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, Dull Flat Finish. Color can be added.	

