

## DECOR Silicate Paint DSE-520

No. TD : D-037/APCT  
Revision : 01  
Effective Date : 27/08/2021

**DECOR Silicate Paint DSE-520-1K** is ready to use exterior and interior silicate paint for heritage and modern building. This product is used for high calcium lime and sand mortar, lime cement rendering, concrete surfaces, masonry, natural stone, bricks, fibre cement board.

This product is made from potassium silicate emulsion, 100% inorganic color pigment and special filler.

**DECOR Silicate Paint DSE-520-1K** contains silicifiable potassium water glass as a binder. Silicification, the chemical reaction between potassium water glass and substrate, produces uniform inseparable bonding with the mineral substrate. The mineral pigmentation is also optimally incorporated.

**DECOR Silicate Paint DSE-520-1K** which has the following advantages :

- Breathable ( Highly Water vapour permeable and non-vapour retarding )
- Unique bonding principle in structure give long term protection
- Keep the Natural moisture balance
- Weather resistant, UV light resistant and color stable
- No dirt pick up due to low anti static build up
- Nonflammable / Incombustible
- Reduce pollution by absorbing Carbon dioxide (CO<sub>2</sub>) from atmosphere
- Natural alkalinity helps to prevent fungus and mold, due to high pH
- Free from solvents, biocide and preservatives
- Resistant to proprietary cleaning products and disinfectants
- Environmentally friendly

### PRODUCT DATA

Type	: Silicate emulsion
Color	: As shown in the color card
Finish	: Matt
Solid by volume	: $\pm 35.5 \%$
Specific gravity	: $\pm 1.52$
Theoretical coverage	: $6 - 9 \text{ m}^2 / \text{kg}$ ( per coat, 30 – 40 microns Dry Film Thickness )
Drying time	: Surface dry = 60 minutes ( 30 °C ) Depend on temperature and humidity
Packaging	: 5 kg & 25 kg
Storage stability	: 12 months if stored in cool and dry and in original not opened container ( Do not store below freezing point )

### APPLICATION

Thinning ratio by volume	: Ready to use (if necessary, thinning with 1 part of DECOR Penetran Silicate PS-521 to 10 parts of paint (according to application need).
Application method	: Brush or Roll
Wet film thickness	: 80 – 110 microns ( per coat )
Dry film thickness	: 30 – 40 microns ( per coat )
Recommended dry film thickness	: 60 – 120 microns ( 2 - 4 x 30 microns), depend on color
Recoating interval	: Minimum = 4 hours (30° C), when the first paint film already dry
Post treatment	: Masking tape is used to protect surface not to be painted, e.g. door and window frames. As the dry film is elastic, cut the line with a knife or a cutter before remove the masking tape.
Cleaning	: Wash all equipment immediately after use with clean water

## SURFACE PREPARATION

- The surface must be dry, clean, sound, and free from all contaminants. Newly build wall or or old surface must be dry. Make sure moisture content / dampness of wall  $\leq 25\%$ .
- Remove all loose material, existing organic paint thorough brushing and scraping using active fibre brush (except silicate paint type with good condition).
- Treat any areas affected by mould, algae, moss and lichens with **PROPAN Fungicidal Wash**.
- Repair defects with suitable filler. Use sand and cement mix for large holes and crack. Allow to dry.
- It is recommended to apply DECOR Penetran Silicate PS-521 as a primer, before applying this coating.

## APPLICATION CONDITION

Temperature	: Minimum 15° C Maximum 50° C
Humidity maximum	: 80 % RH Provide adequate ventilation during application and drying.

## RECOMMENDED COATING SCHEDULE

- Primer coat : DECOR Penetran Silicate PS-521 without thinning, 1 coat.
- Finish coat : DECOR Silicate Paint DSE-520 if necessary thinning with 1 part of DECOR Penetran Silicate PS-521 to 10 parts of paint, 2 – 4 x 30 microns Dry Film Thickness, depend on color.

## SAFETY, SECURITY, HEALTH AND ENVIRONMENT

Do not take internally. This product is non toxic and non flammable. It does not contain any material with heavy metals such as mercury and lead. Avoid contact with the skin and eyes. Higher concentrations produce more severe irritation. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use barrier cream. Wash splashes from skin or eyes immediately. Ensure adequate ventilation and fresh air entry during application and drying. If there are experiences eye watering, headaches, dizziness or difficulty breathing, leave the area to obtain fresh air or wear respiratory protection. If continued difficulty is experienced, get medical attention immediately. Do not breathe vapor or spray mist. Keep away from food, drink and animal feeding stuffs. Dangerous to fish and other aquatic life. Do not contaminate watercourses or ground. This material and its container must be disposed of in a safe way. Avoid all contact with plant life. Close container after each use and keep out of reach of children. Keep in original container, tightly closed, in cool and dry place. Avoid direct sunlight. Keep from freezing. This container is used to storage the paint only. Do not apply to surfaces on which food is prepared. Wash hands and exposed skin before meals and after use. Read all safety, security, health and environment precautions before use.

### First Aid :

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| Skin contact | : Wash off thoroughly with plenty of water and soap immediately.<br>Remove contaminated clothing. If irritation occurs, seek medical advice. |
| Eye contact  | : Rinse immediately with plenty of clean water. Seek medical advice.   |
| Inhalation   | : Remove person to fresh air, loosen collar and avoid exertion.<br>Keep patient rested and give artificial respiration.                      |