



W4 WATER REPELLENT

NANO SIZE, INVISIBLE, DEEP PENETRATING IMPREGNATOR

USES

- Extensive water repelling of exposed porous stone, granite, marble, roof tiles, concrete roof, cement plaster, brick, gypsum, limestone, terra-cotta, clay tile, precast wall, outdoors stone monuments, historical buildings, temple statue, bridge girder, drain culvert etc.
- Reducing sulphurous gases and acid that penetrate the building material by capillary action. Reducing salt formation & damages.



FEATURES

- **W4** is a water miscible solvent-based micro-emulsion concentrate based on silane / siloxane.
- **W4** works by penetration and micro-crystallisation, expanding and filling itself in the pores. At the same time, it allows breathing, so that trapped moisture can escape, reducing salt formation that causes concrete spalling, efflorescence, cracking and fungus growth.
- **W4** will impart water droplet effect to the treated surface, reducing water absorption by up to 99%.
- **W4** has been giving long-term performance of up to 20 years (with slight yellowing on white marble surfaces). It is not affected by UV and abrasion
- **W4** is a good concrete sealer before painting. It seals against alkaline breaching and improves paint adhesion. Extending paint service life by 2 to 3 years. It can also be added into emulsion paint at 1% level before painting. **W4** is water miscible, and is environmentally friendly.

APPLICATION METHOD

Dilution: W4 + Clean Water = 1 + 50 (use it within 24 hours)

- Ensure surface is clean and dry. Use roller or brush.
- Apply **1 to 2 coats** wet over wet.
- Application Temperature: 0 ° C to 50 ° C.
- Coverage: About 40- 80 m²
- Drying time: 30 minutes at 25 °C.
- Curing time: 1 day at 30°C and 10 days for cold climate.



POROUS SURFACE TREATED WITH W4

Stone is sensitive, test apply on a small area, to check on the changes in shade. Before full application.

CAUTION

- Avoid naked flame. Do not apply by mist spraying. Use in a well-ventilated area.
- Do not use **W4** to waterproof the bottom surface of the marble and stone tiles as it will lead to debonding.
- Do not allow **W4** to form water patches, as it will dry into dark and oily silicone stain. Stain can be removed by torching it with gas burner and scrubbing, best by polishing or buffing.
- Highly polished light coloured tight grain granite and marble tiles have to be handled with care. Do not over coat to avoid wet looking silicone stain. Silicones Stain can only be removed by polishing.



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TECHNICAL DATA

- Form A liquid concentrate with slight pungent smell.
- Active Content 100 %
- Depth of penetration Greater than 4 mm.
- Concrete cup test 99% of water remains in the cup after 24 hours.
Detergent water will leak dry in 30 minutes.
- Shelf Life 12 months. Store below 30 °C.
- Flash Point Greater than 25 °C.
- Testing PSB tested on Oct 3, 2003. Water Absorption Rate 0.01 % after treatment.

REMARKS

- **ORAL EXPOSURE:** In case of ingestion, rinse the mouth with water. Call a physician.
- **INHALATION EXPOSURE:** In case of inhalation, proceed to an open space. If breathing becomes difficult, call a physician.
- **DERMAL EXPOSURE:** In case of contact, immediately remove clothing and rinse with copious amounts of water. Call a physician.
- **EYE EXPOSURE:** In case of contact, immediately rinse with copious amounts of water for at least 15 minutes. Assure adequate rinsing by separating the eyelids. Call a physician.

PACKING

100ml-Bottle, 0.5 liter-PE Bottle, 1 liter-PE Bottle, 5 liter-PE Bottle, 20 liter-Jerry Can



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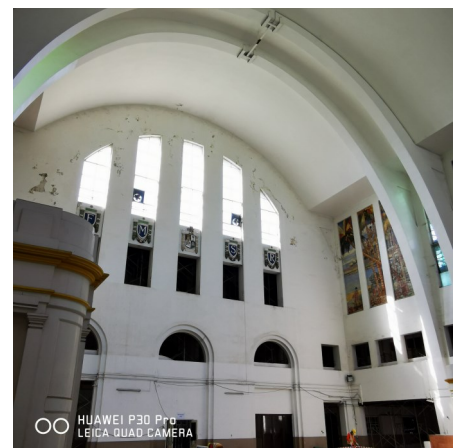
HILLVIEW MANSION



Far East Square



MALAYAN RAILWAY 1998



2019-12-30 after 21 years No stain on the ceiling



The Singapore Environment Council hereby grant

the right to use the Singapore Green Label for

WARRIOR W4

032-136-3551

“Environmentally Preferred Coating”

(In accordance to SEC Green Label Category 32 : Paint and Surface Coating Version 1)

Validity: 16 September 2019 to 15 September 2020

A handwritten signature in black ink, appearing to read "Jen Teo", is positioned above a horizontal line.

JEN TEO

Executive Director
Singapore Environment Council



**Singapore
Environment
Council**



PD-2018-20

1 Kay Siang Road
#07-01 S(248922)