Enviro SurfaPaint Kirei

envirosystems
environmentally responsible technology

Self-Cleaning, Antibacterial, Deodorising Cool Paint

DESCRIPTION

Enviro SurfaPaint Kirei is a photocatalytic cool paint with self-cleaning properties. By harnessing the power of surrounding light, titanium dioxide nanoparticles decompose organic substances. When applied on exterior surfaces Enviro SurfaPaint Kirei decomposes organic stains, pollution and prevents mould growth and reflects more than 94% of the incident InfraRed (IR) radiation, saving energy and reducing building heating/cooling costs. When Enviro SurfaPaint Kirei is applied on interior surfaces, artificial light activates it and sterilises airborne or surface-bound microorganisms, deodorises and improves indoor air quality. At the same time, titania nanoparticles increase the whiteness and thermal reflectivity. The paint is white and can be tinted as pal colour (preferably with inorganic dyes).

FEATURES & BENEFITS

- Keeps walls clean from pollution, organic stains and mould growth
- Eliminates bacteria growth
- Deodorises and improves indoor air quality
- Activated by both solar and artificial indoor light
- Cool paint reflects more than 94% of infrared radiation (IR)
- Weather resistant and water repelling
- Excellent elasticity, opacity and coverage
- Excellent UV and alkali resistance
- Prevents carbon dioxide diffusion and acts as an anti-carbonation barrier
- Can be tinted as pal colour

TYPICAL USES & APPLICATION SURFACES

Enviro SurfaPaint Kerei can be applied directly on internal and external wall surfaces (masonry, concrete, plaster, drywalls).

PHYSICAL PROPERTIES

Density (ISO 2811-1)	1.32 ± 0.05 g/cm^3
pH (ISO 19396-1)	8.8 ± 0.5
Thermal Condutivity (EN ISO 12667:2004)	0.44 W/(mK)
Emittance (ASTM E408-71)	0.91
Scrub Resistance (ISO 11998:2006)	Class 1
Reflectance (ASTM E 903-6)	Total 91.84% (250-2200 nm), infrared 94.22% (700-2200 nm)
Fungal resistance (BS3900-G6:1989)	Excellent resistance against fungi Class 1
Carbon dioxide diffusion coefficient	8 x 10-8 cm2.s-1 @ 150µm DFT
Diffusion resistant coefficient	220cm @ 150µm DFT
Equivalent Air layer thickness (R)	294m @ 150µm DFT

SUBSTRATE PREPARATION

All surfaces should be clean, dry and free from oil, grease and other foreign material or contamination.

New substrates of cement or masonry should have cured for more than 3-4 weeks before primer application. For cracks bigger than 1 mm, fill the gap with a suitable putty. Enviro SurfaPaint Kirei can be applied directly on the substrate. For even better results, prime substrate with Enviro Prime WB or Enviro Shield (porous surfaces) or Enviro SurfaMix Universal Primer (non-porous surfaces).

For further information on substrate preparation or for project specific advice, please consult Envirosystems.
customerservice@envirosystems.com.au

APPLICATION

Stir well before application. Do not dilute for bridging gaps and hairline cracks of up to 0.5 mm. If thinning is required, add up to 10% water by volume. Application temperature should be between 8 and 35°C.

Apply 2-3 even coats using a good quality brush, roller or by spraying with a tip of 1.4 mm or more of diameter. Do not overbrush. Ensure corners and edges are adequately covered. Additional coats should be applied 4-6 hours after the previous application.

COVERAGE

10-12m^2/L
Estimated coverage rate is strongly dependent on the properties of the surface applied.

DRYING TIME

Typically 1 hour depending on coat thickness. Low temperatures and high humidity will lengthen drying times.

PACKAGING & COLOURS

Enviro SurfaPaint Kirei is supplied in 10L plastic pails.

SHELF LIFE

Enviro SurfaPaint Kirei can be stored in its original sealed containers for 24 months, when placed in a cool environment above 4°C. Once opened and resealed for later use, the shelf life could vary depending on storage conditions. Always check product quality before using after prolonged periods of storage. If unsure, please contact Envirosystems for advice.

HEALTH & SAFETY ADVICE

Read label before use. Refer to the Safety Data Sheet for full safety and handling procedures.

NOTE: Safety Data Sheets are available under the individual product page on our website or by emailing customerservice@envirosystems.com.au

APPROVALS & CERTIFICATES

Rated product by European Cool Roofs Council (ECRC)– Product ID: FA00000006.

We're here to help you!

It is a good idea to keep a journal of your projects, whether big or small.

- Take pictures at all stages of your work, including preparation.
- Record the quantity and description of products used with corresponding batch numbers.
- Record dates and times of when you applied products, from start to finish.

Please do not hesitate to contact us for any questions you may have.

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