
TECHNICAL SPECIFICATION

NIPPON SOLAREFLECT

- Description** : Nippon Solareflect is an elastomeric cool paint system that reflects a large amount of solar energy from the sun. It can reflect more solar energy and reduces the surface temperature by up to 5°C*. This special property can lower heat build-up and subsequently decreases the energy needed for air-conditioning. The Nippon Solareflect technology enables us to offer a wide range of fashionable colours for design and decoration, now houses don't have to be white to be cool!
- Type** : Elastomeric acrylic-based coating system formulated with Solar reflective pigment, for exterior use.
- Colour** : A wide range of fashionable pastel, medium and dark colours as per colour card
- Finishes** : Low Sheen
- Uses** :
- Premium high performance coating system for use on external masonry wall surfaces such as cement, plastered wall and brickwork.
 - Warehouse, factory and cold storage room.
- Features** :
- High solar energy reflection, less heat build-up results in lesser power consumption for air-conditioning – energy saving
 - Excellent weather resistance
 - Long lasting colours
 - Excellent dirt pick-up resistance
 - Elastic and flexible – covers hairline cracks
 - Excellent washability
 - Excellent resistance to alkali and efflorescence
 - Non-toxic, does not contain lead, mercury and heavy metals
 - Anti-fungus and anti-algal properties

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APPLICATION DATA

Method	:	Brush, roller and airless spray
Theoretical Coverage	:	10–12 m ² /litre (based on 40 microns DFT)
Required Thickness:	:	40 to 50 microns (Dry Film Thickness per coat)
Dilution	:	No dilution for best effect
Surface Preparation	:	<p>New or Unpainted Surfaces</p> <ul style="list-style-type: none"> • Repair any imperfections and fill cracks, holes and nail heads with an exterior filler. • Surface must be clean, dry, and stable and free from dust, dirt, oil, grease and other contaminants prior to painting. • Treat any fungus-growth areas with Nippon Anti-Fungus Solution. <p>Previously Painted Surfaces</p> <ul style="list-style-type: none"> • Ensure the previously painted surface is stable. • Remove all loose, peeling and flaking paint film by high-pressure wash or scrapper. • The previously painted surface must be clean, dry, and stable and free from dust, dirt, oil, grease and other contaminants prior to painting. • Fill cracks, holes and nail heads with an exterior filler. • Treat any fungus-growth areas with Nippon Anti-Fungus Solution.
Recommended Painting System	:	<p>New or Unpainted Surfaces:</p> <ul style="list-style-type: none"> • 1 coat Nippon Solareflect Sealer-Primer White (40-50 microns DFT) • 2 coats Nippon Solareflect (40-50 microns DFT per coat) <p>Previously Painted Surfaces:</p> <ul style="list-style-type: none"> • 1 coat of Nippon Vinilex 5170 Wall Sealer (20-30 microns DFT) • 2 coats Nippon Solareflect (40-50 microns DFT per coat) <p>Recommended total dry film thickness is 120 – 150 microns</p>
Drying Time	:	Touch Dry - 1 hour at 30°C
Overcoating Time	:	2 hours based on normal conditions
Cleaning	:	Wash all equipment immediately with clean water after use.

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PERFORMANCE DATA

Check Items	Specification	Method
Alkaline Resistance	Passed	SS 5: Part G2
Accelerated Weathering	No blistering, cracking nor chalking	SS 5: Part G4
Algal Resistance	Passed	SS 345: Appendix B
Adhesion Test (X-cut)	Passed	ASTM D3359
Tensile Strength	Min. 1.5 N/mm ²	ASTM D412 (SS 500: 2002)
Elongation at Break	Min. 150%	ASTM D412 (SS 500: 2002)
Water Absorption	Max. 170 ml water/m ² /24 hours	SS 500: 2002 Annex A
Water Vapour Transmission	Min. 80 g/m ² /24 hours	ASTM D1653 (SS 500: 2002)
Dirt Pick Up Resistance (3 months natural weathering)	Before washing: Min. 92% After washing: Min. 95% Water spotting: Less than 10%	ASTM D1014 (SS 500: 2002) ASTM D3719 (SS 500: 2002) ASTM D610 (SS 500: 2002)

GENERAL INFORMATION

- Solid Content** : 60 ± 2% by weight (based on white colour)
46 ± 2% by volume (based on white colour)
- Specific Gravity** : 1.36 ± 2% kg/litre (based on white colour)
- Packing** : 5, 20 litres
- Storage** : Store in a tightly sealed container below 30°C
- Shelf Life** : Up to 18 months in a tightly sealed container.
- Precaution** :
- Avoid painting when the temperature is below 10°C or 35°C or when the humidity is over 85%.
 - Ensure adequate protection and avoid direct contact on sensitive skin, eye, etc.

The information given is intended to give a description of the product performance under specific test conditions. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subjected to many variations. We reserve the right to alter the given data without notice.

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