DELTA NANO ANTI ALGAE PAINT SYSTEM
Nano Titanium Dioxide Anti–Algae Paint System

DESCRIPTION

A Nano Technology coating system that incorporates nano TiO₂ (titanium dioxide) and other proprietary nano particles for maximum anti algae effect.

Delta Nano Anti Algae Paint System comprises of:


b. Delta Starlite PU 118A – a solvent-based polyurethane coating integrated with proprietary nano-sized functional additives to enhance the anti-algae effect.

c. Delta Nano Anti Algae Primer – a water-based nano-sized TiO₂ (titanium dioxide) primer which serves as a barrier layer between Delta Starlite PU 118A and Delta Nano Anti Algae Top.

d. Delta Nano Anti Algae Top – a water-based nano-sized TiO₂ (titanium dioxide) topcoat which has the active ingredient that gives the anti-algae effect.

Note: Delta Nano Anti Algae Top can be used independently as an anti-algae coating with ceramic tiles, roof tiles, marble, granite, stone, concrete, masonry and other mineral surfaces.

SYSTEM DESIGN

BENEFITS

❖ Prevent unsightly algae growth on exterior painted surfaces
❖ Improve aesthetics of buildings

USES

❖ For anti-algae of painted surfaces of building façade.
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FINISH

Gloss

COLOUR

Extensive selection available

SURFACE PREPARATION

Substrates to be coated must be structurally sound, clean and free from any contamination. Use mechanical stone grinding or other mechanical means to remove laitance. All residues must be removed by vacuum cleaning to provide a dry, dust free open textured surface. For other specific application, consult DELTA INTERCONTINENTAL P/L.

APPLICATION

❖ 1 coat of Delta Starlite 117A @ 8 m²/litre/coat @ 25µm/coat
❖ 2 coats of Delta Starlite PU 118A @ 10 m²/litre/coat @ 50µm/coat.
❖ 1 pass of Delta Nano Anti Algae Primer @ 75 - 90 m²/litre/pass.
❖ 3 passes of Delta Nano Anti Algae Top @ 75 - 90 m²/litre/pass.

Subjected to site condition, more passes can be applied.

Tools:

❖ Delta Starlite 117A and Delta Starlite PU 118A - applied by brush, snort nap roller or airless sprayer.

❖ Delta Nano Anti Algae Primer and Delta Nano Anti Algae Top - applied by spray gun with atomized air and alternating vertical and horizontal spray movement.

Recoating Time:

❖ Delta Starlite 117A – Min : 8 hours @ 35°C Max : 7 days @ 35°C
❖ Delta Starlite PU 118A - Min : 3 hours @ 35°C Max : 7 days @ 35°C
❖ Delta Nano Anti Algae Primer - Min : When coating is dry. Max : 24 hours before application of Delta Nano Anti Algae Top.
❖ Delta Nano Anti Algae Top - Interval between pass: when previous pass is dry.

TECHNICAL AND APPLICATION DATA

<table>
<thead>
<tr>
<th>Product</th>
<th>Flash Point</th>
<th>Volume Solid</th>
<th>No. of Components</th>
<th>Recommended DFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta Starlite 117A</td>
<td>&gt;25°C</td>
<td>43%</td>
<td>1</td>
<td>25µm per coat</td>
</tr>
<tr>
<td>Delta Starlite PU 118A</td>
<td>29°C</td>
<td>60%</td>
<td>2</td>
<td>50 - 75µm per coat</td>
</tr>
</tbody>
</table>

| Mixing ratio (by vol) | 6.6 : 1 Part A : Part B |
| Pot Life             | 90 min @ 35°C          |

Delta Nano Anti Algae Primer & Top

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti Microbial (JIS R1702:2006)</td>
<td>See report enclosed</td>
</tr>
<tr>
<td>Industrial Hygiene Monitoring tested by Setsco</td>
<td>See report enclosed</td>
</tr>
<tr>
<td>Accelerated Weathering (ISO 11341:2004)</td>
<td>See report enclosed</td>
</tr>
<tr>
<td>Anti Algae</td>
<td>See report enclosed</td>
</tr>
</tbody>
</table>
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STORAGE CONDITIONS AND SHELF LIFE
All materials should be stored in a cool, dry place without exposure to direct sunlight. Shelf life of all materials is 12 months.

PACKAGING
- Delta Starlite 117A: 5 litre/pail
- Delta Starlite PU 118A: 5 litre/set
- Delta Nano Anti Algae Primer: 1 litre/bottle
- Delta Nano Anti Algae Top: 1 litre/bottle

SAFETY
General PPE and safety measures for chemicals to be complied with. There should be appropriate ventilation and exhaust at application area.