

DELTA NANO ANTI ALGAE PAINT SYSTEM

Nano Titanium Dioxide Anti-Algae Paint System



Before:



After:



DESCRIPTION

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

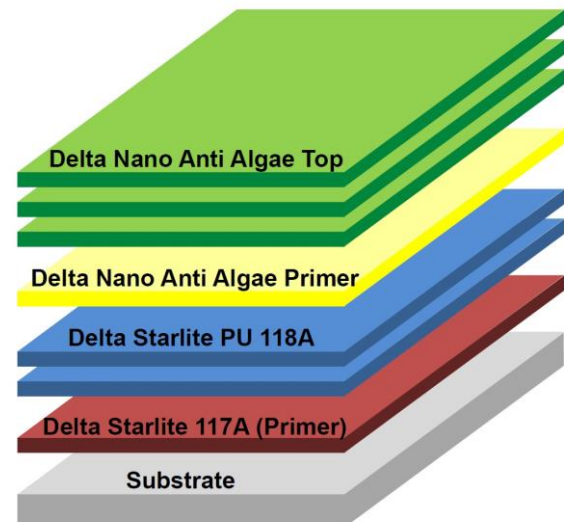
Delta Nano Anti Algae Paint System comprises of:

- Delta Starlite 117A* – a solvent-based acrylic primer.
- Delta Starlite PU 118A* – a solvent-based polyurethane coating integrated with proprietary nano-sized functional additives to enhance the anti-algae effect.
- 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.

- 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/lit/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, short 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

Delta Starlite 117A	
Flash Point	>25°C
Volume Solid	43%
No. of Components	1
Recommended DFT	25µm per coat
Delta Starlite PU 118A	
Flash Point	29°C
Volume Solid	60%
Recommended DFT	50 - 75µm per coat
No. of components	2
Mixing ratio (by vol)	6.6 : 1 Part A : Part B
Pot Life	90 min @ 35°C
Delta Nano Anti Algae Primer & Top	
Anti Microbial (JIS R1702:2006)	See report enclosed
Industrial Hygiene Monitoring tested by Setsco	See report enclosed
Accelerated Weathering (ISO 11341:2004)	See report enclosed
Anti Algae	See report enclosed

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STORAGE CODITIONS 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.