



DELTA STARLITE 1001 AS AM

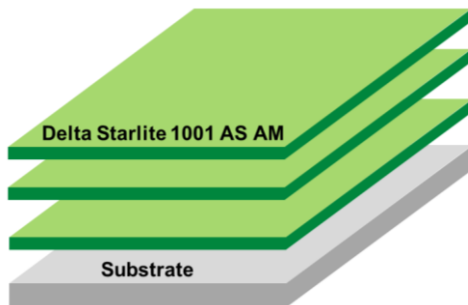
Anti-Bacterial and Anti-Mold Water-Based Epoxy Coating



DESCRIPTION

An anti-bacterial and anti-mold water-dispersed epoxy sealer/top coat. Available in clear or pigmented finishes. Specially formulated to include nano TiO₂ and other proprietary additives derived from Delta Nano Technology.

SYSTEM DESIGN



COLOR

Available in a range of standard colours or clear.

FINISH

Low sheen / gloss.

USES

- ❖ Ideal for use as floor and wall coating especially where solvent-based material is unsuitable.
- ❖ For protection of surfaces against dusting, solvent and chemical attack.
- ❖ Prevent the growth of bacteria and mold on floor and wall.
- ❖ Typical applications include food process area, assembly plant, pharmaceutical, warehouses, garages and other light industrial areas where hygiene and cleanliness is important.

BENEFITS

- ❖ Provide a hygienic surface by preventing the growth of bacteria and molds.
- ❖ High vapour permeability.
- ❖ Compatible with cementitious as well as asphaltic substrates.
- ❖ Odourless and Solvent-less – makes application in confined spaces bearable.
- ❖ Less sensitive to moisture during application.
- ❖ Resistant to a wide range of chemicals.
- ❖ Can be top coated.
- ❖ **HACCP certified to Singapore Standard** for use in facilities covered by HACCP accreditation



SURFACE PREPARATION

Substrates to be coated must be structurally sound, clean and free from contamination. Surface preparation by captive shot blasting, scarifying, diamond disc grinding. For oil/grease contaminated areas, use chemical degreaser followed by thorough water washing and drying. For other specific application, consult DELTA INTERCONTINENTAL P/L.

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APPLICATION

- ❖ Primer coat of Delta Starlite 1001 AS AM @ 0.17kg/m² (can be diluted with maximum 5% water)
- ❖ Body coat of Delta Starlite 1001 AS AM @ 0.20kg/m².
- ❖ Finishing coat of Delta Starlite 1001 AS AM @ 0.20kg/m².

Mixing – Before mixing, stir Part A, then mix Part A and B thoroughly for 2 minutes.

Mixing is done by using slow speed power mixer (300 – 500 rpm).

Tools – Applied using brush, short nap epoxy roller or airless sprayer.

Recoating Time – Interval between coats: 8 hours
Maximum recoating time: 24 hours

TECHNICAL AND APPLICATION DATA

Pull-Off Strength ASTM D 4541	2.94 N/mm ²
Taber Abrasion Resistance ASTM D 4060 (1000g, 1000 cycles, CS17 wheels)	0.21g
Chemical Resistance	See list attached
Anti-Microbial AATCC 147	See report enclosed

Recommended dry film thickness	425µ
No. of coats	3 coats
No. of components	2
Mixing Ratio (by weight)	4.2 : 1 Part A : B
Pot Life	45 mins @ 29°C
Temperature Resistance	55°C
Cleaner	Water

MAINTENANCE

To maintain the appearance of the floor, all spillage must be removed immediately and clean regularly using rotary scrubber, wash and vacuum in conjunction with suitable detergents and waxes.

STORAGE CONDITIONS AND SHELF LIFE

All components of Delta Starlite 1001 AS AM have a shelf life of 12 months in original unopened packing, stored in dry, enclosed place without exposure to direct sunlight and temperature between 15°C to 35°C, protected from frost.

PACKAGING

20.8 kg set

Comprises of: Part A – 16.8 kg
Part B – 4 kg

SAFETY

Although Delta Starlite 1001 AS AM is non-combustible, certain of its ingredients may be harmful if exposure is prolonged or contacted with. Always use with suitable personal protective equipment.



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Chemical Resistance List

Chemical	Result
Acetic Acid (10%)	No effect
Acetic Acid (25%)	No effect
Acetic Acid (40%)	Faint mark (discoloration)
Acetic Acid (99%)	Faint mark (discoloration)
Brine (Saturated sodium chloride)	No effect
Calcium Chloride (50%)	No effect
Calcium Hydroxide (Saturated)	No effect
Citric Acid (20%)	No effect
Citric Acid (60%)	No effect
Detergent (Alkaline)	No effect
Formic Acid (40%)	Severe mark (blistering)
Formic Acid (70%)	Severe mark (peeling, flaky)
Formic Acid (90%)	Severe mark (peeling, flaky)
Formic Acid (99%)	Severe mark (flaky)
Gasoline	No effect
Hydrochloric Acid (10%)	No effect
Hydrochloric Acid (37%)	No effect
2-propanol (99%)	No effect
Jet Fuel	No effect
Kerosene	No effect
Methanol (99%)	No effect
Methylene Chloride (99%)	No effect
Methyl Ethyl Ketone (99%)	No effect

Chemical	Result
Motor Oil	No effect
Nitric Acid (5%)	Faint mark (discoloration)
Nitric Acid (30%)	Faint mark
Nitric Acid (65%)	Severe mark (slight blistering)
Phosphoric Acid (5%)	Faint mark (discoloration)
Phosphoric Acid (40%)	Faint mark (discoloration)
Phosphoric Acid (50%)	Faint mark (discoloration)
Phosphoric Acid (85%)	Faint mark (discoloration)
Potassium Hydroxide (50%)	No effect
Sodium Chloride (Saturated)	No effect
Sodium Hydroxide (20%)	No effect
Sodium Hydroxide (32%)	No effect
Sodium Hydroxide (50%)	No effect
Sodium Hypochlorite (15%)	No effect
Sulfuric Acid (5%)	Faint mark
Sulfuric Acid (30%)	Faint mark
Sulfuric Acid (50%)	Faint mark
Sulfuric Acid (98%)	Severe mark
Toluene (99%)	No effect
Distilled Water	No effect
White Spirit	No effect
Xylene (99%)	No effect