DELTA STARLITE 104 SP (HC)

Novolac Epoxy Coating

DESCRIPTION

A 100% solids, solvent-free, novolac epoxy coating and lining system for concrete and primed steel substrate.

USES

- Areas where cementitious or steel surfaces need protection from chemical corrosion.
- Typical applications include chemical production and storage facilities, pharmaceutical, pulp and mills, waste water and sewerage treatment plants, food and beverage.

BENEFITS

- High chemical resistance.
- High abrasion and impact resistance.
- Solvent-free, low odour.
- Aesthetically pleasing.
- Can incorporate anti-slip finish.
- Seamless and hygienic.
- Can incorporate fibre reinforcement to form tank lining.
- **HACCP certified to Singapore Standard** for use in facilities covered by HACCP accreditation

COLOR

Available in a range of standard colours.

FINISH

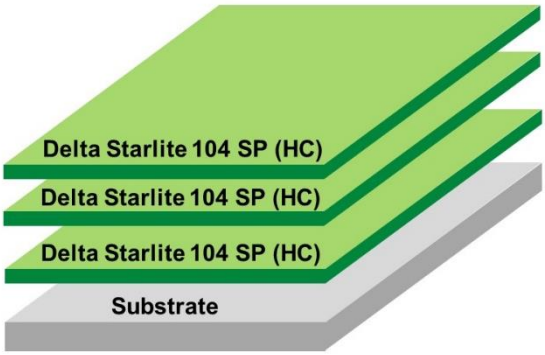
Gloss

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.

APPLICATION

- Primer coat of Delta Starlite 104 SP (HC) @ 0.25kg/m^2.
- Body coat of Delta Starlite 104 SP (HC) @ 0.20kg/m^2.
- Finishing coat of Delta Starlite 104 SP (HC) @ 0.20kg/m^2.



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Ref. No.: 022023

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Mixing – Before mixing, stir Part A, then mix Part A and B thoroughly for 2 minutes, using a slow speed power mixer (300 – 500 rpm).

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

Recoating Time – Interval between coats: 10 hours between primer and body coat. 8 hours between body and finishing coat.
Maximum recoating time: 24 hours

TECHNICAL AND APPLICATION DATA

Compressive Strength	45 N/mm^2
Tensile Strength	12 N/mm^2
Flexural Strength	20 N/mm^2
Pull-off Strength ASTM D 4541	Concrete failure
Taber Abrasion Resistance ASTM D 4060 (1000g, 1000 cycles, CS17 wheels)	0.12g
Recommended dry film thickness	500µ
No. of coats	Primer + 2 coats
No. of components	2
Mixing Ratio (by weight)	4.2 : 0.8 Part A : Part B
Pot Life	15 mins @ 29°C
Temperature Resistance	60°C
Chemical Resistance	See attached list

STORAGE CONDITIONS AND SHELF LIFE

All components of Delta Starlite 104 SP (HC) 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.

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.

PACKAGING

5 kg set

Comprises of: Part A – 4.2 kg
Part B – 0.8 kg

SAFETY

Product contains epoxy resins and amines. Do not take internally. May irritate eyes and skin. Ensure adequate ventilation and avoid inhaling vapours. Always use with suitable personal protective equipment.

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Chemical Resistance List

Chemicals	Result
2-propanol	No effect
Acetic Acid (10%, 25%, 40%, 99%)	Faint mark for all concentrations
Ammonium Hydroxide (29%)	No effect
Brine (saturated sodium chloride)	No effect
Calcium Chloride (37%, 50%)	No effect for all concentrations
Calcium Hydroxide (saturated)	No effect
Citric Acid (20%, 60%)	No effect for all concentrations
Detergent (alkaline)	No effect
DI Water	No effect
Formic Acid (40%, 70%, 90%)	Severe mark for all concentrations
Formaldehyde (37%)	No effect
Gasoline	No effect
Hydraulic Fluid/Oil	No effect
Hydrochloric Acid (10%, 37%)	Faint mark for all concentrations
Jet Fuel	No effect
Kerosene	No effect
Lactic acid (30%, 80%)	Severe mark for all concentrations (discoloration)
Methanol	No effect
Methyl tert-butyl Ether	No effect

Chemicals	Result
Methylene Chloride	No effect
Methyl Ethyl Ketone	No effect
Methyl Isobutyl Ketone	No effect
Mineral Oil	No effect
Motor Oil	No effect
Nitric Acid (5%, 30%)	Faint mark for all concentrations
Nitric Acid (65%)	Severe mark
N-Methyl Pyrrolidone (NMP) (100%)	Faint mark
Phosphoric Acid (5%, 40%, 50%, 85%)	Faint mark for all concentrations
Potassium Hydroxide (50%)	Very faint mark
Sodium Bisulfite (40%)	No effect
Sodium Hydroxide (20%, 32%, 50%)	No effect for all concentrations
Sodium Hypochlorite (15%)	Faint mark
Sulfuric Acid (5%, 30%)	Faint mark for all concentrations
Sulfuric Acid (96%)	Severe mark
THF	Faint Mark
Toluene	No effect
White Spirit	No effect
Xylene	No effect

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