



# Apoxthanes™

## Elastomeric Polymerised Epoxy Coating

### DESCRIPTION

Apoxthanes™ a resin rich elastomeric polymerised epoxy with improved crack bridging function, resistance against chemicals, liquids & gases while maintaining hardness & toughness of an epoxy.

### SUITABLE USES

Apoxthanes™ suitable for new or existing internal or external concrete, masonry or sound cement panel and board including properly prepare and prime ferrous or non ferrous metal.

- Commercial, public communal areas, MRT station, hospital, kitchens, etc
- Foot path, trolley & goods delivery passage, corridors, lift lobbies, etc
- Heavy duty car parks, driveway, ramps, concrete or steel bridges, viaducts, etc
- Beam, column and deck structures

### ADVANTAGES

- Flexibility and tough coating
- No solvent content, odorless system
- Superior adhesion and abrasion resistant
- User friendly, easy hand trowel application
- Variable anti-skid texture

### SUBSTRATE REQUIREMENT

To obtain a desirable result, ensures Apoxthanes™ is applied onto clean, sound and watertight substrate free of oil, grease, dirt, adhesive, laitance and any other surface contamination and defect.

### SURFACE PREPARATION (FRESH CONCRETE)

- Blast clean, scarify or grind the surface to remove laitance and expose hidden blow hole
- Fill blow hole, crack, etc., with Aquapoxy™ Screed or filler with bond strength > 1 N/mm<sup>2</sup>
- Use Omniclean and pressure wash to degrease
- Moisture within the concrete should be <12% moisture on Protimeter

### WORKING WITH APOTHANES™

Please read and understand Technical Data Sheet and Safety Data Sheet of each product before using them. We recommend only trained and approved applicator be engaged to perform application of Apoxthanes™.

### SUITABLE PRIMER

Apoxy™ HB Sealer/ Apoxy™ 126FS Primer, Aquapoxy™ AC1000 Primer, Aquapoxy™ FGS, etc.

### SUITABLE TOPCOAT

Apoxy™ 126 FS, Aquapoxy™ FG, Aquathanes™ FG  
For better colour retention in external condition, we recommend overcoat with Aquathanes™ FG.

### APPLICATION OF APOXTHANES™ SYSTEM

Equip with right tool and equipment before mixing any epoxy. We only recommend authorised and trained applicator to apply Apoxthanes™ system. Sample of a stirrer is shown below.

Start stirring Part A (20kg) and move MG peddler in direction opposite to MG peddler blade rotation for 1 minute to obtain a uniform and homogenous mass.

Slowly add Part B (4kg) while the mixing continues. Keep mixing for another 1 minute.



#### Type of application

Ceil & wall at 1.0 mm DFT  
(apply in 2 or more applications)

#### Min. usage

1.35 kg/m<sup>2</sup>

Floor at 2.0 mm DFT

2.70 kg/m<sup>2</sup>

Floor at 3.0 mm DFT

4.05 kg/m<sup>2</sup>

For info on skid resistive surface, please contact our sales/ technical staff for assistance/



# Apoxthanes<sup>TM</sup>

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### PHYSICAL PROPERTIES

Appearance	Part A: Pigmented base Part B: Resinous hardener
Abrasion ASTM D4060	Weight loss < 0.05g (1000 cycles/ 1000g / CS-10)
Adhesion at 14 days ASTM D3389-D 3002	Class 0 Cross cut tester n°157
Anti-skid coefficient ASTM D2047	0.2 (with aggregate only)
Bond strength ASTM D4541	> 2.0 N/mm <sup>2</sup> or concrete failure after 72hrs curing
Chemical test HCL (30%) H <sub>2</sub> SO <sub>4</sub> (40%) NaOH (40%)	7 days immersion No visible breakdown No visible breakdown No visible breakdown
Colour	Standard range Other colour on request
Initial dry time @ 30°C Over-coating Full cure	12 hours 24 hours 168 hours
Elongation ASTM D190:85	≥ 85%
Hardness ASTM 695	90 (Shore A)
Pot life (A+B)	10 minutes @ 28°C
Tensile strength ASTM D190:85	> 15 N/mm <sup>2</sup>
Type of resin	100% resin rich epoxy polymer

### CLEANING TOOL & EQUIPMENT

Use cleaning solvent A1 to clean tools

### COVERAGE

1000µ D.F.T. requires about 1,350g /m<sup>2</sup>

2000µ D.F.T. requires about 2,700g /m<sup>2</sup>

### PACK SIZE

Part A	20kg can
Part B	4kg can

### POTLIFE & SHELF LIFE

Pot life : 15 minutes after mixing  
Shelf life : 9 months in sealed condition  
Do not use any mixture after 15 minutes.

### STORAGE & TRANSPORTION

Keep Apoxthanes<sup>TM</sup> in cool and dry condition. Store in its original sealed condition.

### LIMITATIONS

- Apoxthanes<sup>TM</sup> may not bond properly to curing compound or other coatings on concrete. Bond or pull off test is recommended to determine suitability before actual application.
- Coverage and consumption varies over porosity and roughness of substrate.
- Suitable temperature for application is 15°C to 45°C
- Apply or install when relative humidity is <75%

### DISCLAIMER CLAUSE

This TDS summarizes our best knowledge of this product, including how to use the product based on the information available at the time of publication. You should read this TDS carefully, consider and try out the information in the context of how the product will be used, including in conjunction with any other product, type of surfaces to, and the manner the product will be applied.

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