

**TECHNICAL DATA SHEET FOR
AQUA EPOXY WALLCOAT**

DESCRIPTION	:	Aqua Epoxy Wallcoat is a two-component water-based modified amine epoxy. It is designed for protection of the internal surfaces for clean room application
TYPE	:	Two-component water-based modified amine epoxy
COLOUR	:	RAL 9003 & RAL 9010
FINISH	:	Soft matt
USES	:	<ul style="list-style-type: none">• Ideal for interior walls of clean room, electronics and pharmaceutical industries, canteen, factory, hospital, offices and institutions where area require low outgassing and good cleanability
FEATURES	:	<ul style="list-style-type: none">• Excellent mechanical and chemical resistance• Excellent stain resistance• Low outgassing• Low odour during application and drying• Non-toxic, does not contain lead, mercury and heavy metals• Environmentally friendly paint certified under the Singapore Green Building Product Certification Scheme

APPLICATION DATA

METHOD	:	Roller or brush
THEORETICAL COVERAGE	:	Priming: 0.16 - 0.20 Kg / m ² Topcoat: 0.10 - 0.13 Kg / m ² (Based on 50u DFT per coat)
DILUTION	:	Priming: 5 – 10% dilution Topcoat: No dilution required
MIXING RATIO	:	Part A : Part B = 18.5 : 81.5 (by weight)
POT LIFE	:	60 minutes at 25 °C
SURFACE PREPARATION	:	Ensure surface is clean, dry and stable. Concrete substrate adhesive pull-off strength shall be of minimum 1.5 N/mm ² <ul style="list-style-type: none">• Moisture: There must not be any water residue on the surface of the substrate. Moisture must be <4% (Sovereign Moisture Master) before application• Unstable matter: Remove loose bonding film, dirt, peeling paint, etc by high-pressure water jet wash or mechanical means such as grinding, sanding, scarifying, power brush or scraper, whichever is suitable

AQUA EPOXY WALLCOAT

- **Contaminants:** Remove dust and foreign matter by cleaning with damp cloth. Remove oil or grease using solvent or mild detergent. Allow surface to dry
- **Fungus and Algae:** Wash the affected area to remove unstable matters and micro-organisms. Apply Anti-Fungus Solution and leave on for at least 2 hours

DIRECTION OF USE : **Mixing**
 Stir each component separately using an electric drill fitted with a paint mixer or a wing type mixing paddle. Pour the entire contents of Part A into Part B while stirring and mix evenly for approximately 1 minute. Transfer to another container and mix for another minute until a homogenous tone is achieved.

Important note: Do not attempt to mix the both components manually, mechanical stirrer must be used to assure homogenous mixing

OVERCOATING TIME : 8 hours minimum at 30 °C

SUBSTRATE TEMPERATURE RELATIVE TO DEW POINT : $\geq 3^{\circ}\text{C}$

RECOMMENDED APPLICATION TEMPERATURE : Minimum 15°C
 Maximum 35°C

RELATIVE HUMIDITY < 85%

RECOMMENDED PAINTING SYSTEM : Priming: 1 coat Aqua Epoxy Wallcoat (5 – 10% dilution)
 Topcoat: 2 coats Aqua Epoxy Wallcoat

CLEANING : All equipment should be cleaned with water immediately after use

PERFORMANCE DATA

(Based on white colour)

Test Items	Test Methods	Results
Adhesion Strength	ASTM D4541	>1.5 MPa (Concrete failure)
Shore D Hardness, 7 days	ASTM D2240	77
Taber abrasion (1000g load/1000 cycles, CS17) (1000g load/1000 cycles, CS10)	ASTM D4060	126 mg 80 mg
Pencil Hardness, 7 days	ASTM D3363	6H

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GENERAL INFORMATION

SOLID CONTENT : 63.0 ± 2.0 % by weight (mixture)

VOLUME SOLID : 49.0 ± 2.0 % by volume (mixture)

DENSITY : 1.30 ± 2.0 % kg / litre (mixture)

PACKING :

Unit	Part A		Part B	
	Weight	Container Size	Weight	Container Size
5 KG	0.93 KG	1 L	4.07 KG	5 L
20 KG	3.70 KG	5L	16.30 KG	20L

STORAGE : Store in a tightly sealed container in a cool, dry place

SHELF LIFE :

Part A	Part B
12 Months	12 Months

PRECAUTION : Ensure good ventilation during application and drying of paint. Avoid direct contact with sensitive skin. Use appropriate personal protective equipment

Refer to the product Safety Data Sheet for more information

The information given is intended to give a description of the product performance under specific test conditions. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subject to many variations. We reserve the right to alter the given data without notice.

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