DPC DAMP PROOF COATING

LIQUID APPLIED ELASTIC MEMBRANE

USES

1. Toilet - As a waterproofing membrane that withstands soaking and movement
2. Tiling - As under-tile waterproofing
3. Roof - As base coat before top coat and expansion joint
4. Window - As a damp proof coating before installing the frame
5. Pool - As a koi pond coating
6. Wall Putty - Added with calcium carbonate powder as external & internal wall putty
7. Basements - Ground level as waterproofing and vapour barrier
8. Silage Storage - To protect concrete from silage attack

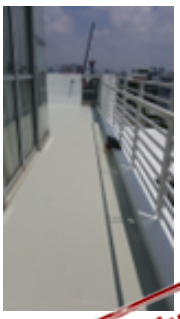
FEATURES

1. Single pack, water based, non-toxic, non-hazardous, solvent and plasticizer free
2. Quick drying (touch dry in 1 hour); Dry to form a tough semi-gloss finish
3. Good bonding to various substrates subject to thermal movement; withstands soaking
4. High toughness, flexibility, extensibility and good crack bridging properties
5. Non-staining; Resistant to alkali and silage acids
6. Can be applied onto damp backgrounds

APPLICATION METHOD

1. Newly cast cement needs to be fully cured for 30 days to reduce alkalinity that causes paint blisters.
2. Mix DPC and water at a ratio of 1 : 1.
3. Apply one coat of the mixture as a primer.
4. Allow it to dry before second or third coat of DPC.





3 coats on the roof deck cured into a tacky membrane.

COLOR

Clear, Black, White

PACKING

1 kg, 5 kg, 20 kg

High Performance product

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REMARKS

1. Avoid direct exposure to UV or excessive heat.
2. Water Ponding test should be carried out at least 4 days after all coats have been applied. Under unfavorable drying conditions, this may need to be extended.
3. Do not use it as a top coat; it may be tacky, attracting dirt.

TECHNICAL DATA

Touch-dry: 20 minutes to 1 hour depending on surrounding condition
Elongation: 600%
Coverage:
Metal Surfaces - 50– 60 m² / 20 kg (2 layers with thickness 0.4 - 0.5 mm) or 0.4 kg / m²
Concrete Surfaces - 28 - 35 m² / 20 kg (2 layers with thickness 0.7 - 0.8 mm) or 0.7 kg / m²

DPC TEST REPORT by ELEMENT CONSTRUCTION TESTING(S) PTE LTD
DATE: 29 SEPTEMBER 2023

Table (A) - Summary of Test Results

S/N	PROPERTIES / TESTS		*ACCEPTANCE CRITERIA	TEST RESULTS	
1	DIN 1048 Pt 5: 1991 [ADM/CE/004: 2010] TESTING CONCRETE - TESTING OF HARDENED CONCRETE (SPECIMENS PREPARED IN MOULD) - WATER PERMEABILITY				
	Resistance to Water Penetration, (mm)		Depth of penetration should be zero	0	
2	ASTM D4541-02 STANDARD TEST METHOD FOR PULL-OFF STRENGTH OF COATINGS USING PORTABLE ADHESION TESTERS				
	Adhesion to Substrate, (N/mm²)		≥ 0.2 N/mm²	2.12	
3	ASTM D412-16 (2021) STANDARD TEST METHODS FOR VULCANIZED RUBBER AND THERMOPLASTIC ELASTOMERS - TENSION				
	Tensile Strength, (N/mm²)	a) Before ageing	≥ 1.2 N/mm²	3.68	
		b) After ageing at 50°C, 14 days	≥ 1.0 N/mm² and -ve change ≤ 20%. No limit for +ve change	4.64	26.3%
		c) After immersion in the following chemicals for 72 hours at room temperature — i) 0.5% (v/v) NaOCl		3.59	-2.3%
		ii) 1.25% (v/v) NH4OH		3.03	-17.5%
		iii) 3.7% (v/v) HCl		3.13	-14.9%
	Elongation at Break, (%)	a) Before ageing	≥ 150%	235	
		b) After ageing at 50°C, 14 days	≥ 120% and -ve change ≤ 20%. No limit for +ve change	197	-16.1%
		c) After immersion in the following chemicals for 72 hours at room temperature — i) 0.5% (v/v) NaOCl		315	34.2%
		ii) 1.25% (v/v) NH4OH		274	16.7%
		iii) 3.7% (v/v) HCl		322	37.2%
4	ASTM D1640/D1640M-14 (2018) STANDARD TEST METHODS FOR DRYING, CURING, OR FILM FORMATION OF ORGANIC COATINGS				
	Set-to-Touch, (mins)		Should touch dry within 60 mins	55	

Table (A) - Summary of Test Results (Cont.)

S/N	PROPERTIES / TESTS	*ACCEPTANCE CRITERIA	TEST RESULTS
5	ASTM C836/C836M-18 (2022) [ADM/CE/001: 2017] STANDARD SPECIFICATION FOR HIGH SOLIDS CONTENT, COLD LIQUID-APPLIED ELASTOMERIC WATERPROOFING MEMBRANE FOR USE WITH SEPARATE WEARING COURSE		
	Crack Bridging	No cracks after 10 cycles of stretching and closing to a width of 1mm	No crack was observed
		No cracking at 2mm width	No crack was observed
6	ASTM D2240-15 (2021) STANDARD TEST METHOD FOR RUBBER PROPERTY - DUROMETER HARDNESS		
	Hardness (Shore A)	≥ 30	86
7	FTIR, DTA & TGA [ADM/C&B/001: 2021 & ADM/C&B/002: 2021] VERIFICATION OF BASE POLYMER & POLYMER CONTENT		
	Verification of Base Polymer	Polymer which undergoes hydrolysis should not be used	Styrene-Butadiene Rubber (SBR) (Does not undergoes hydrolysis)
	Polymer Content, (%)	-	47.43
8	TGA [ADM/C&B/001: 2021] VOLATILE CONTENT		
	Volatile Content, (%)	< 50 %	1.81

Remarks: **Acceptance criteria is based on HDB Product Performance Requirement - Flexible Non-Cementitious Waterproof Membrane (Water-Based) - New Construction & Ceiling Leakage Repair*

Disclaimer:

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