

## COMPARISON TEST DATA

Note: Higher figure shows higher resistance

ITEM	RESULT			THE METHOD OF THE TEST
	BIOFINE	ACRYLIC EMULSION	SOLVENT PAINT	
Contamination Resistance	5	1	5	Under 20°C, 65%RH, the specimen is applied and kept for 8 hours. Then, the adhesiveness of the blasted block sand is evaluated.
Washability	0,000 times	1,000 times	20,000 times	JIS A6909 5.11. The specimen is rubbed by a pressure of 450g.
Vapour Resistance	5	1	5	Under 100% relative humidity, leave the specimen for 24 hours.
Water Resistance	5	4	5	JIS K 5400 7.2, immersed in water for 96 hours.
Hot Water Resistance	5	1	5	Immersed in 50°C water for 48 hours.
Alkali Resistance	5	1	5	JIS K 5400 7.4, Immersed in saturated calcium hydroxide for 48 hours.
Fungus Resistance	5	1	2	JIS Z 2911. Under 28°C, leave fungus on specimen for 2 weeks
Weather Resistance	Contamination	4	3	Expose the specimen for 12 months
	Surface Condition	5	Crack	

## TEST RESULT INTERPRETATION

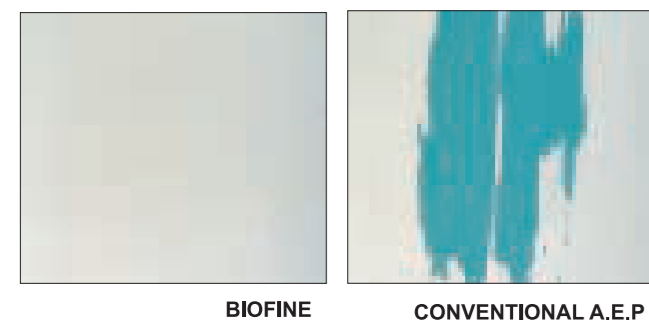
### Environment Friendly

\* This product was evaluated by PSB Singapore as quality product to pass the

### Washability

According to JIS A6909 test, conventional Acrylic Emulsion Paint fail in the 1000 times washability test.

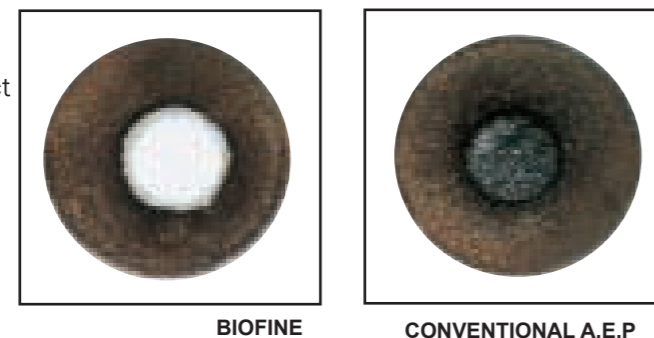
BIOFINE provides a strong film surface which has a resistance to 10,000 times in the washability test.



Surfaces coated with conventional Acrylic Emulsion Paint absorb ink of the water-based line marker easily. In contrast, BIOFINE, due to its strong film structure, can resist the penetration of ink and provides washable surface.

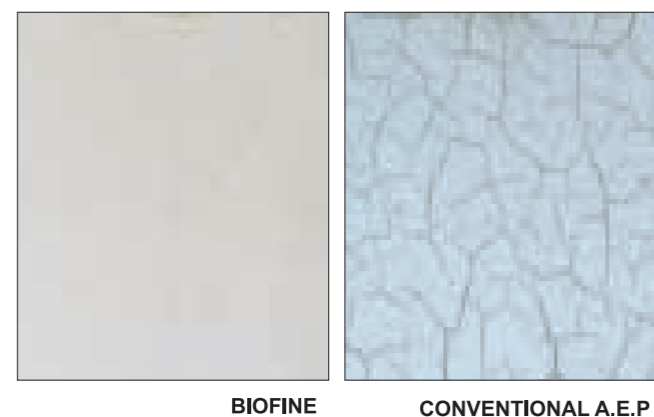
### Fungus Resistance

This is the result of the Cultivation Test after 14 days in accordance with JIS Z 2911. Conventional Acrylic Emulsion Paint show a propagation of fungi.



### Durability & Anti-Contamination :

After outdoor exposure for 6 months, BIOFINE did not show any crack or remarkable contamination due to its non-tacky nature.



## TEST DATA OF JIS K 5663

ITEM	RESULT	CRITERION	JIS
Condition in Container	PASSED	Paints shall have no lumps when mixed	K 5633 5.3
Film Workability	PASSED	No applications difficulties when applied twice	K 5633 5.4
Stability at - 5°C	PASSED		K 5633 5.5
Drying time	PASSED	Within 2 hours	K 5633 5.6
Appearance of film	PASSED	No sags and runs when applied	K 5633 5.7
Hiding power	0.99	Over 0.90	K 5633 5.8
Water Resistance	PASSED	No abnormalities when immersed in water for 96 hours	K 5633 5.9
Alkali Resistance	PASSED	No abnormalities when immersed in saturated calcium hydroxide for 48 hours	K 5633 5.10
Wet Scrub Resistance	PASSED	Must pass 500 cycles ( Passed SS345 : 1990 requirement for 3000 cycles)	K 5633 5.11
Accelerated Weathering	PASSED	Sunshine Weather-O-Meter for 200 hours (Passed SS 345 : 1990 requirement for 1000 hours)	K 5633 5.12



## JOB REFERENCES



Embassy Techzone, Putrajaya



Katana Condominium, Kuala Lumpur



Chek Lap Kok Airport, Hong Kong



Menara Telecom, Melaka



ING Tower, Kuala Lumpur



KK Times Square, Kota Kinabalu

## USES

Hotels, schools, restaurants, hospitals, commercial buildings, residential apartments, food factories, etc

## APPLICATION SUBSTRATE

Concrete, cement mortar, suitably primed building boards, etc.

## PACKING STYLE

Biofine Sealer : 20ltr

Biofine Matt : 20ltr

Biofine Satin : 20ltr

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# BIOFINE

The Evolution Of An Ecologically Friendly High Performance Emulsion



**SK KAKEN (M) SDN.BHD.**



The world's leading environmentalists' efforts to protect our living environment are unceasing.

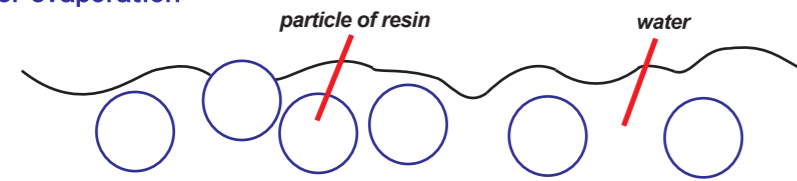
SKK takes pride in supporting the 'green' movement and this propels us to develop an environmentally friendly high performance aqua-based paint.

# BIOFINE, a Reactive Type Acrylic Paint. Seven (7) Years Protection

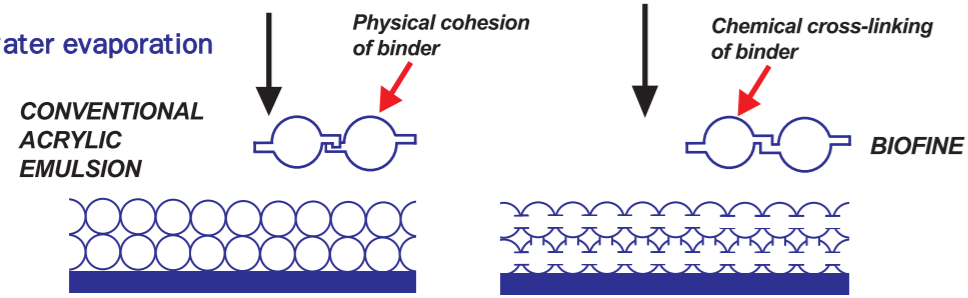
## Cross-Linking Mechanism

Biofine has an unique curing system entirely different from the conventional Acrylic Emulsion Paints.

### Stage 1 : Before water evaporation



### Stage 2 : After water evaporation



Biofine cures by the chemical cross-linking of binder hence resulting in durable and dense paint film. Unlike conventional solvent-based paints or emulsion paints, it does not emit any obnoxious or toxic odour.

## Advantages

### Superior Film Performance

Its chemical cross-linking film formation structure provides excellent resistance to water, alkali and other forms of contamination. Biofine is thus suitable for a wide range of application conditions.

### Washability

Its tough film allows scrubbing without causing any damage of the film. Therefore Biofine can withstand more washing cycles than conventional Acrylic Emulsion paints.

### Fungus Resistant

Biofine is designed to resist contaminants such as dirt, dust, spores, moulds and fungus.

### Odourless

Solvent-based paints form tougher paint films than conventional acrylic emulsion paints. While, the former gives off a strong unpleasant toxic odour, Biofine forms the desired tough film without emitting any unpleasant toxic smell.

## APPLICATION SPECIFICATION

Process	Material	Mixing Ratio (By Weight)	Consumption (ltr /m <sup>2</sup> )*	Number Of Coats	Interval(hrs)			Remarks
					Within Process	Between Process	Final Curing	
Substrate Preparation	<ul style="list-style-type: none"> <li>Allow the Substrate to dry for moisture content of 10% or less, ensuring ph value of 10 or below</li> <li>Remove all foreign matters, make good cracks and surface imperfections.</li> </ul>							
Primer	Biofine Sealer	100%	0.10 – 0.13	1	-	Min.1	-	By Roller, Brush or airless spray gun.
	Water	0 – 15%						
Finish	Biofine	100%	0.25 – 0.30	2	Min.2	-	Min.24	-
	Water	0 – 15%						

\*Actual consumption varies depending on wastage on job site

# BIOFINE

## Reactive Type Acrylic Paint

 ▲ DAWN SB-6046 BS 04B 21	 ▲ ORIENTAL SB-6072 BS 04D 45	 ▲ PLUM SB-6074 BS 02C 39	 ▲ HONEY SB-6070 BS 06D 43	 ▲ MANDARIN ORANGE SB-6060 BS 06E 51	 ▲ JADE SB-6063 BS 14E 53	 ▲ BIG BLUE SB-6082 BS 18E 53	 ▲ DUSK SB-6052 BS 20C 37	 ▲ PEWTER SB-6038 BS 10A 07	 ▲ BLACK SB-6045 BS 00E 53
 ▲ PEBBLE SB-6042 BS 08B 21	 ▲ BRICK RED SB-6071 BS 04D 44	 ▲ FONTANA SB-6073 BS 02C 37	 ▲ GOLDEN BROWN SB-6035 BS 08C 35	 ▲ CHROME YELLOW SB-6069 BS 08E 51	 ▲ LEMON GREEN SB-6061 BS 14E 51	 ▲ DULL BLUE SB-6083 BS 18D 41	 ▲ LAGOON BLUE SB-6067 BS 18D 43	 ▲ MERCURY SB-6037 BS 00A 05	 ▲ SILT SB-6085 BS 10A 11
 ▲ SILVER MIST SB-6021 BS 10A 03	 ▲ SIGNAL RED SB-6059 BS 04E 53	 ▲ BRICK CLAY SB-6028 BS 04C 37	 ▲ BROWN YELLOW SB-6027 BS 06C 35	 ▲ SUNSET ORANGE SB-6068 BS 06E 50	 ▲ EAU DE NIL SB-6025 BS 6 070	 ▲ AVOCADO SB-6084 BS 16D 41	 ▲ SKY BLUE SB-6012 BS 18E 51	 ▲ WHISPER SB-6048 BS 18B 21	 ▲ MAHOGANY SB-6054 BS 06C 39
 ▲ MISTY GREY SB-6013 BS 00A 01	 ▲ FLESH RED SB-6058 BS 04E 51	 ▲ ROMANCE SB-6053 BS 22C 37	 ▲ STRAW SB-6034 BS 06C 33	 ▲ PEACH SB-6081 BS 06D 41	 ▲ BAMBOO GREEN SB-6019 BS 12C 33	 ▲ PEACOCK GREEN SB-6065 BS 16D 45	 ▲ MARINA SB-6062 BS 20E 51	 ▲ HORIZON BLUE SB-6041 BS 18C 35	 ▲ STEAK SB-6086 BS 08B 25
 ▲ MAGNOLIA SB-6014	 ▲ ROSE PINK SB-6016 BS 04C 33	 ▲ PINK PANTHER SB-6050 BS 24C 33	 ▲ HONEY COMB SB-6030 BS 08B 17	 ▲ ANTIQUE YELLOW SB-6057 BS 10E 50	 ▲ SEA WAVE SB-6033 BS 14D 41	 ▲ TURQUOISE SB-6066 BS 16E 53	 ▲ DIAMOND BLUE SB-6004 BS 18E 50	 ▲ VOGUE SB-6024 BS 22B 17	 ▲ SEA WEED SB-6056 BS 12D 45
 ▲ BANANA SB-6006 BS 10B 15	 ▲ CHERRY PINK SB-6015 BS 04E 49	 ▲ DUSTY PINK SB-6008 BS 04B 17	 ▲ CREAM SB-6023 BS 08E 49	 ▲ PRIMROSE SB-6040 BS 10E 49	 ▲ RAYON SB-6020 BS 14C 35	 ▲ ADMIRALTY GREEN SB-6064 BS 16C 37	 ▲ PASTEL SKY SB-6049 BS 20C 33	 ▲ ASH GREY SB-6029 BS 18B 17	 ▲ SWAMPY SB-6047 BS 12B 21
 ▲ WHITE SB-6000 BS 00E 55	 ▲ IVORY SB-6002 BS 08B 15	 ▲ MISTY PINK SB-6007 BS 04B 15	 ▲ COMFORT SB-6022 BS 08C 31	 ▲ CORN SILK SB-6039 BS 10C 33	 ▲ ISLAND GREEN SB-6026 BS 14E 50	 ▲ MISTY GREEN SB-6009 BS 14C 31	 ▲ CRYSTAL BLUE SB-6003 BS 18E 49	 ▲ MORNING DEW SB-6005 BS 22B 15	 ▲ SEA GRASS SB-6043 BS 12B 17
 ▲ LIGHT GREEN SB-6017 BS 14E 49	 ▲ MEADOW GREEN SB-6010 BS 12B 15	 ▲ SPRING BLUE SB-6011 BS 16C 33	 ▲ MOON MIST SB-6001 BS 18C 31	 ▲ SUGAR CANE SB-6031 BS 10C 31	 ▲ CLAY BEIGE SB-6032 BS 10B 17				

● Indicates Premium Colours.

The colours on this card are as close to actual paint colours as modern techniques allow