



Licence No. 032-020
Environmentally Friendly
Low-VOC Paint



CERT NO.: 92-2-0074
ISO 9001: 2008



COMPO SILICON W55

Environment-friendly & Super Durable Acrylic Silicon Resin Coating



COMPO SILICON W55

Today the focus of attention is on acrylic-silicon emulsion resin coatings which go beyond existing concepts. These coatings use silicone resin as the binding agent and the result is a high penetrating yet water vapour permeable paint which offers superb dirt resistance to external weather forces and is absolutely water repellent.

The single-liquid form assures our product remains continuously stable with firm siloxane bonding. It meets new demand in fields of internal and external construction finishes, and public works as an easy maintenance coating. In combination with a micro porous penetrating primer, optimum protection is gained against water seepage, dirt, fungus, alkali, salt etc. Silicon coated buildings remain cleaner, better in the long run as compared to conventional acrylic or polyurethane coatings.

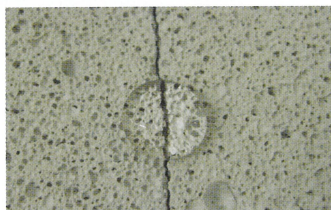
Silicone resin coatings are available in a wide range of natural matt finishes with a distinctive choice of textures.

Silicone resin exterior coating can be easily applied by brush or roller with excellent opacity and be retouched effortlessly.

Features

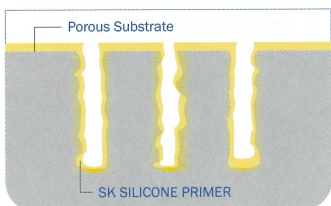
Penetrative Primer

Excellent hydrophobic permeation even onto cracked surface leading to substantial and uniform reduction on the surface water absorption.
(DIN 52617 testing)



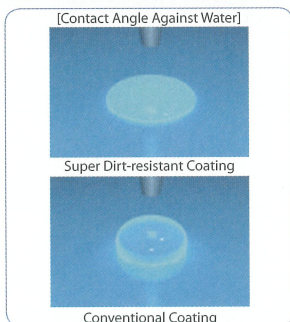
Impregnation Effect

Effective impregnation of primer into absorbent substrate strengthens and consolidates the porous substrate and even hairline-cracked area.



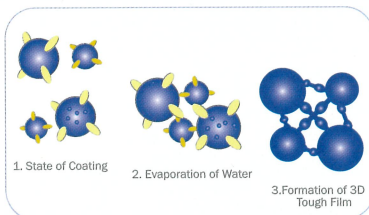
Water Repellency

The hydrophobic film provides excellent resistant against settlement of airborne and rainwater-carried contaminants. The contact water angle of $>110^\circ$ shows excellent water repellency.



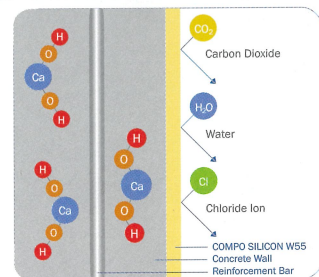
Unique Cross-Linking Technology

Although 3-dimensional cross-linked siloxane-enhanced (Si-O-Si) molecular structure forms a relatively high density paint film. The mutual inter-looking of the silicone polymers helps to strengthen the surface strength in which provides a superb resistance against various contaminations such as alkaline attack ultra-violet radiation, dirt and dust collection.



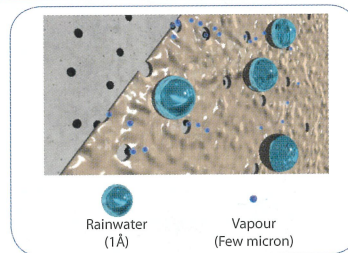
Protection to Concrete

The breathable primer also allows a minimal of Carbon Dioxide to be transported for necessary carbonation effect to the substrate to achieve the optimum strength. However, it prevents unrestrained ingress of Carbon Dioxide from reacting with the excess Calcium Hydroxide in the concrete building, which could result in spalling concrete.



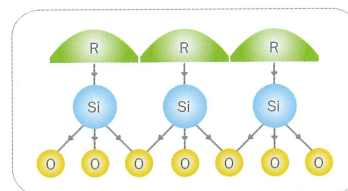
Water Vapour Permeability

Superb vapour permeability allows water vapour transmission while resisting water droplets from external.
(DIN 52615 testing)



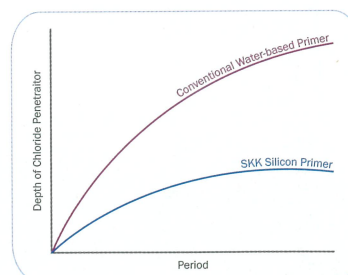
Superb Sodium Chloride (Salt) Resistance

It is the ideal protection to the building facade against salt attack in a harsh, seaside environment.



Alkaline and Chlorine-Resistance

Excellent stopper for alkaline and chlorine attacks, thus suppresses development of efflorescence at the interface of substrate and coating.



JOB REFERENCES



RiverGate (Singapore)



Indochina Plaza Hanoi (Vietnam)



Costa Rhu (Singapore)



MTPB Ascendas (India)



Aston Braga Apartment (Indonesia)



Oakwood Residence (Thailand)

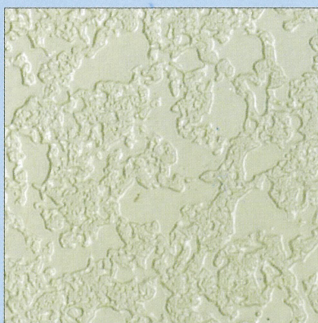


Infinity Condominium (Malaysia)

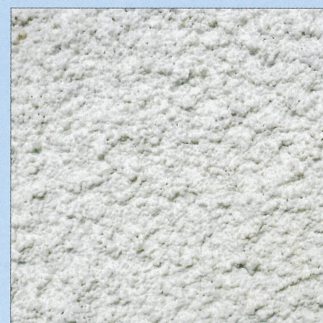
Texture Sample:



Bell Art



Lenaluck



Milano Coat

Packing

- SK SILICONE PRIMER 2 ltr / can
- COMPO SILICON W55 25 kg / can

TEST RESULTS

Standard Application Specifications

External Walls (Cement mortar, Concrete, PC and RC panels, Fibrous boards, etc)

Process		Material	Mix Ratio (wt %)	Consumption (kg/m²)	No. of Coats	Intervals (hrs)			Remarks
						In Process	In Processes	Final Curing	
Surface Treatment		<ul style="list-style-type: none">● Dry the surface thoroughly to bring moisture content to a maximum of 18% (with protimeter) and PH level to 10 or less.● Completely remove any dirt or dust, and repair and smooth out unevenness and scratches.							-
1	Primer	SK SILICONE PRIMER	10	0.10 - 0.15 (After Dilution)	1	-	Min. 2 hrs	-	By roller
		Water	90						
2	Top Coat	COMPO SILICON W55	100	0.30 - 0.40	2	Min. 2 hrs	-	Min. 24 hrs	By spray, roller or brush
		Water	0 - 10						

Material Handling

- Store materials in a cool, well-ventilated and dry place, away from direct sunlight.
- Ensure adequate ventilation during application.
- Avoid contact with eyes. Any skin or eye contamination should be washed immediately with plenty of water and seek medical treatment.
- If swallowed, seek medical advice immediately. Do not induce vomiting,
- Keep away from heat sources.

Performance Test Results

JIS 5663 Material Tests

No.	Test Item	Result	Regulations
1	Condition inside a container	Pass	Becomes smooth with no lumps when mixed
2	Low temperature stability (-5°C)	Pass	No deformation
3	Film workability	Pass	No application difficulties when applied twice
4	Drying Time	Pass	20° Within 2 hours
	5°C		Within 4 hours
5	Appearance of film	Pass	Film has normal external appearance
6	Contrast ratio (white and light colours)	0.98	Above 0.95 or more
7	Water resistance	Pass	No unusualness on paint film after 96 hour immersion
8	Alkali resistance	Pass	No unusualness on paint film after 7 days immersion
9	Wet scrub resistance	Pass	Must pass 1000 cycles
10	Resistance against repeated wetting, warming and cooling action	Pass	No unusualness on paint film surface
11	Accelerated weather resistance	Pass	Degree of whitening is 8 points or more; negligible change in colour when compared to sample after 480 hour test
12	Weather resistance	Pass	Degree of whitening is 6 points or more under 12 month test; no cracking, swelling, holes, blistering; negligible change in colour and gloss when compared to sample.



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