



NATIONAL SILICONE EMULSION PAINT (SILK)  
DECORATIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL SILICONE EMULSION PAINT (SILK)

<b>PRODUCT DESCRIPTION</b>	National Silicone Emulsion Paint (Silk) is a superior quality, water and salt resistant, modified silicone emulsion based paint with excellent durability. It provides a highly breathable coating with extra ordinary UV and weather resistances for exterior application. It is highly washable and has very low dirt pick up property. It has very good mechanical and abrasion resistance with excellent adhesion to various substrates. It contains anti fungal and anti bacterial additives.
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<b>RECOMMENDED USES</b>	It is used as a decorative and protective smooth finish application for interior and exterior surfaces of concrete, plaster, gypsum, asbestos, brickwork, wood, masonry work etc. It is recommended for the dusty atmosphere with extreme humid and harsh climate of Gulf. It can be used for the interior/exterior applications of museums, mosque, exhibition centers, villas, industrial buildings etc. Over coating over suitable systems, provides excellent weather resistance and low dirt pick up property, especially for textured or grooved finishes.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	As per the National Shade Card
<b>FINISH, DRY FILM</b>	Smooth / Silky
<b>VOLUME SOLIDS (ASTM D2697)</b>	40 ± 2 %
<b>SPECIFIC GRAVITY</b>	1.25 ± 0.05
<b>THEORETICAL SPREADING</b>	10 – 8 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	40 – 50 Microns / Coat
<b>RECOMMENDED WFT (WET FILM)</b>	100 – 125 Microns / Coat
<b>FLASH POINT</b>	Water Base

### DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
<b>TOUCH DRY</b>	1 hour
<b>DRY TO RECOAT</b>	4 – 6 hours
<b>FULL DRY</b>	24 hours



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### **ADVANTAGES**

<b>NATIONAL SILICONE EMULSION PAINT (SILK)</b>	Long durable, extra ordinary UV and weather resistances, highly washable, very low dirt pick up, very good mechanical and abrasion resistance, excellent adhesion, very good alkali resistance, good coverage, and excellent water vapour permeability.
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### **APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.
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### **APPLICATION DATA**

<b>APPLICATION METHOD</b>	Roller, Brush or Spray
<b>CLEANING/THINNING</b>	Water
<b>THINNER (VOLUME)</b>	Water up to 10 % depends on the application of method
<b>CONV. SPRAY REQUIREMENTS</b>	Possible
<b>AIRLESS SPRAY REQUIREMENTS</b>	Pressure: 2000 – 2500 psi
<b>NOZZLE SIZE</b>	0.018” - 0.021”
<b>MIXING RATIO (BY VOLUME)</b>	NA
<b>POT LIFE @ 30°C (100 ml)</b>	NA

### **SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	National Acrylic Primer (W.B.)	: 1 coat
	National Silicone Emulsion Paint (Silk)	: 2 coats
	Leveling the surface: (If required)	
	National Stucco Filler (for Interior)	: 2 coats
	National Shield Exterior Filler (for Exterior)	: 2 coats

### **NATIONAL/INTERNATIONAL TEST CERTIFICATES**

<b>Sr. No.</b>	<b>Test Description</b>	<b>Test Reference</b>	<b>Compliance</b>
1	VOC	ISO 11890 – 2 : 2006	Local Regulatory Requirements
2	Crack Bridging Ability	ASTM C 836 : 95	
3	Practical Washability	ASTM D 4828 – 91	
4	Rapid Chloride Permeability	ASTM C 1202 : 1997	
5	Water Absorption	ASTM C 642 : 90	



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**ADDITIONAL DATA**

<b>SHELF LIFE @ 30°C</b>	18 months, in original sealed container, with proper storage conditions.
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**HEALTH & SAFETY**

<b>SAFETY PRECAUTIONS</b>	Generally, most of the water base paints are quite safe to handle with due precautions. As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area. Local safety regulations to be followed.
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**STORAGE & HANDLING**

<b>STORAGE</b>	Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Do not keep paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.
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**NOTE:** We warranty only the quality of our product and this data sheet is based on results obtained from experience and tests. We reserve the right to change data without prior notice. For surface preparation, safety details refer specifier and safety data.

This data sheet supersedes all previous issued.  
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