

# Marine Paint Manual

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Issue Date: July 2015 (ES)

## ECOSILK

A unique and ultimate biocide-free antifouling paint based on the same technology of the silicone elastomer. Low frictional resistance to prevent shipfouling organisms from settling is realized by the silicone elastomer that has super water repelling property. ECOSILK differs from the other A/F paints in that it contains no biocide taking the environmental issues into consideration. It is designed especially for high speed and high activity ships. Its characteristics, that it is not of a polishing type with less film deterioration and not chemically altered, ensure the stable and long term antifouling performance to prolong the intervals of docking.

Suitable Use	Finish for super water repellent antifouling for high speed / high activity ships			
Type	Silicone Elastomer			
Color	Gray			
Gloss	Gloss			
Volume Solids	72 ± 2% (ISO3233:1998)			
Typical Dry Film Thickness	150 µm			
Approx. Wet Film Thickness	208 µm			
Theoretical Coverage	4.80 m <sup>2</sup> / L (150 µm)			
Drying Time	Surface Dry	10 hours (5°C)	4 <sup>1</sup> / <sub>2</sub> hours (20°C)	2 hours (30°C)
	Dry Hard	13 hours (5°C)	6 <sup>1</sup> / <sub>2</sub> hours (20°C)	3 <sup>1</sup> / <sub>2</sub> hours (30°C)
Interval before Overcoating ( by self )	Min.	15 hours (5°C)	7 hours (20°C)	4 <sup>1</sup> / <sub>2</sub> hours (30°C)
	Max.	— (5°C)	— (20°C)	— (30°C)
Interval before Immersion	24 hours or more			
Thinner	Dilution Not Allowed.			
	For cleaning, use NIPPON MARINE THINNER 600.			
Application Method	Airless Spray	Tip range	0.53 mm	
		Fan angle	55 ~ 69°	
		Output pressure	above 150 kg / cm <sup>2</sup>	
	Brush / Roller	For touching up small areas only		
Mixing Ratio by Volume	BASE 15 / CURING AGENT 4 / ADDITIVE 1			
Pot Life after Mixing	3 hours (5°C)	1 <sup>1</sup> / <sub>3</sub> hours (20°C)	45 minutes (30°C)	
Typical Package	10 Liter (BASE 7.5 L, CURING AGENT 2 L, ADDITIVE 0.5 L) Package may vary from country to country.			
Japan Local Brand	ECOSILK			
Flash Point	BASE 25 °C, CURING AGENT 25 °C, ADDITIVE 35 °C			
Surface Preparation	All surfaces to be coated should be clean, dry and free from contamination.			
	High pressure fresh water wash and remove all oil / grease, soluble contaminants and other foreign matters.			

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## Safety

Take precautions to avoid skin and eye contact (i.e. gloves, goggles, face masks, barrier creams etc.)  
Proper ventilation and protective measures must be provided during applications and drying period to keep solvent vapor concentrations within safe limits.  
Prior to use, obtain, consult and follow the SDS for this product concerning health and safety information.

### <Note>

- 1) The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
- 2) Prior to use, refer to painting procedure.
- 3) Store the paints in paint store.