

# Marine Paint Manual

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Issue Date: August 2017 (ES)

## AQUATERRAS 1000

A unique and innovative biocide-free antifouling paint based on patented polymer technology. Reduction of frictional resistance and prevention shipfouling organism from settling is realized by its hydrophilic & hydrophobic microdomain structures and its hydrolysis reaction. AQUATERRAS differs from the other antifouling paints in no biocide formulation taking the marine environmental issues into consideration. And it provides long-term antifouling performance and excellent fuel-saving effect with its stable polishing property. It is designed especially for high speed and high activity ocean-going ships.

Suitable Use	For general ocean-going ships (High speed & High activity)				
Type	Hydrophilic & Hydrophobic microdomain copolymer (Biocide-free / extra-super low friction / Hydrolysis / Advanced fuel-saving Lower CO <sub>2</sub> emission)				
Colour	Brown, Light Brown				
Gloss	Semi-gloss				
Volume Solids	33 ± 2% (ISO3233:1998)				
Typical Dry Film Thickness	70 ~ 140 μm				
Approx. Wet Film Thickness	212 ~ 424 μm				
Theoretical Coverage	3.30 m <sup>2</sup> / L (100 μm)				
Drying Time	Surface Dry	1 hour (5°C)	40 minutes (20°C)	30 minutes (30°C)	
	Dry Hard	3 hours (5°C)	1 hour (20°C)	40 minutes (30°C)	
Interval before Overcoating ( by self )	Min.	6 hours (5°C)	4 hours (20°C)	3 hours (30°C)	
	Max.	— (5°C)	— (20°C)	— (30°C)	
Interval before Immersion ( 100 μm )	Min.	18 hours (5°C)	12 hours (20°C)	10 hours (30°C)	
		※See Note (4).			
Thinner	NIPPON MARINE THINNER 350 ( 0 ~ 2%, by volume )				
Application Method	Airless Spray	Tip range	0.64 ~ 0.74 mm		
		Fan angle	45 ~ 54°		
		Output pressure	above 150 kg / cm <sup>2</sup>		
	Brush / Roller	For touching up small areas only			
Typical Package	20 L Package may vary from country to country.				
Japan Local Brand	AQUATERRAS 1000				
Flash Point	24 °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) Use NIPPON MARINE THINNER 350 to wash painting appliances, hoses and guns before and after use.
- 3) The declaration letter of Tin-free Antifouling Paint would not be issued if mixed with the other antifouling paints product or another chemical products.
- 4) Interval before immersion is related to ambient conditions, ventilation, film thickness, and number of coats and will be affected correspondingly. Contact us for actual application.
- 5) Store the paints in paint store.