

# Marine Paint Manual

Reference No. : 15 - 03

Issue Date: March 2019 (ES)

## A-LF-Sea 150

Advanced version of LF-Sea delivering further propulsion benefits. A biomimetic extra-low-friction antifouling that works using a patented water trapping function to lower the hydrodynamic footprint of the hull. Stable and long term antifouling is guaranteed by the use of a low friction special silyl acrylate copolymer.

It can be applied over existing antifouling. Used in conjunction with Nippon Paint Marine's 'Rheo' anticorrosive systems, fuel-savings can be further enhanced.

Suitable Use	For ocean going vessels ( Medium to high speed )				
Type	Special silyl acrylate copolymer (Tin-free / Extra-low friction / Hydrolysis / Advanced fuel-saving / Lower CO <sub>2</sub> emissions / High solid)				
Colour	Brown, Light Brown				
Gloss	Semi-gloss				
Volume Solids	54 ± 2% (ISO3233:1998)				
Typical Dry Film Thickness	80 ~ 150 μm				
Approx. Wet Film Thickness	148 ~ 278 μm				
Theoretical Coverage	5.40 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 ( 100μm )	Min.	18 hours (5°C)	12 hours (20°C)	10 hours (30°C)	
		※ Refer to Note (4).			
Thinner	NIPPON MARINE THINNER 300 ( 0 ~ 5%, 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	16 Liter				
	Package may vary from country to country.				
Japan Local Brand	A-LF-Sea 150				
Flash Point	24 °C				
Surface Preparation	All surfaces to be coated should be clean, dry and free from any contamination, detachment or other defects. High pressure fresh water wash and remove all oil / grease, soluble contaminants, corrosion or any foreign materials.				

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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 300 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.