

# Marine Paint Manual

Issue Date: November 2020 (ES)

## FASTAR XI

FASTAR's unique Hydrophilic & Hydrophobic Nanodomain structure makes it possible for stable and precise polishing of the coating through the ultra-accurate, constant and uniform extraction of the antifouling ions which come from biocide. The binder system incorporated is silyl acrylate copolymer, that delivers long term antifouling and a low friction effect. The low friction effect has been further enhanced by the patented water trapping function.

The system ensures that fresh and active coating surface is exposed to the seawater at all times, resulting in excellent antifouling performance under whatever the conditions the vessel sails.

Suitable Use Type	For ocean going vessels Nanodomain structure / Water Trapping function / Special silyl acrylate copolymer(Extra-low friction -Advanced fuel saving /High solid / Hydrolysis /Tin-free )					
Colour	Red Brown, Dark Brown					
Gloss	Semi-gloss					
Volume Solids	59 ± 2% (ISO3233:1998)					
Typical Dry Film Thickness	80 ~ 150 μm					
Approx. Wet Film Thickness	136 ~ 254 μm					
Theoretical Coverage	5.90 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	14 Liter Package may vary from country to country.					
Japan Local Brand	FASTAR XI					
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.