

Marine Paint Manual

Reference No. : 14 - 03

Issue Date: July 2015 (ES)

NOA 10 M

A superior grade epoxy with excellent abrasion resistant properties designed in full consideration of health & safety, and environmental issues. Multi-purpose SI anticorrosive for maintenance & repair. Its excellent resistance to water / seawater and also to weather, realizes the use for not only outer hull but also above water areas. NOA 10 M can be applied to the whole outer hull including boottop and topsides without separation of painting area. SI technology ensures the designed film thickness with a single coat. NOA 10 M can reduce the painting process and improve the A/C performance. In addition, higher strength of the paint film reduces the mechanical damages and enhances the excellent anticorrosive performance. The coating is distinguished by its unique and patented Self-Indicating (SI) technology that enables the applicator to visually confirm that the correct film thickness has been applied by checking the color development during the application process. The full color is realized only when the correct dry film thickness has been applied, therefore any areas of low film thickness can easily be detected by visual inspection.

Suitable Use	Anticorrosive for outer hull (including boottop and topsides), decks, exterior of superstructures, cargo holds, etc.															
Type	Epoxy (Abrasion resistant / High build / Two-pack)															
Color	Buff															
Gloss	Flat															
Volume Solids	63 ± 2% (ISO3233:1998)															
Dry Film Thickness	175 ~ 250 μm															
Approx. Wet Film Thickness	278 ~ 397 μm															
Theoretical Coverage	3.60 m ² / L (175 μm)															
Drying Time	<table border="0"> <tr> <td>Surface Dry</td> <td>5 hours (5°C)</td> <td>2 hours (20°C)</td> <td>1 hour (30°C)</td> </tr> <tr> <td>Dry Hard</td> <td>24 hours (5°C)</td> <td>14 hours (20°C)</td> <td>10 hours (30°C)</td> </tr> </table>	Surface Dry	5 hours (5°C)	2 hours (20°C)	1 hour (30°C)	Dry Hard	24 hours (5°C)	14 hours (20°C)	10 hours (30°C)							
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Interval before Overcoating	See table (1) for self / self and different products															
Thinner	NIPPON MARINE THINNER 600 (0 ~ 10%, by weight)															
Application Method	<table border="0"> <tr> <td>Airless Spray</td> <td>Tip range</td> <td>(Full coat) 0.59 ~ 0.64 mm</td> </tr> <tr> <td></td> <td></td> <td>(T/U) 0.43 mm</td> </tr> <tr> <td></td> <td>Fan angle</td> <td>(Full coat) 55 ~ 62°</td> </tr> <tr> <td></td> <td></td> <td>(T/U) 45 ~ 55°</td> </tr> <tr> <td></td> <td>Output pressure</td> <td>150 ~ 200 kg / cm²</td> </tr> </table>	Airless Spray	Tip range	(Full coat) 0.59 ~ 0.64 mm			(T/U) 0.43 mm		Fan angle	(Full coat) 55 ~ 62°			(T/U) 45 ~ 55°		Output pressure	150 ~ 200 kg / cm ²
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	Output pressure	150 ~ 200 kg / cm ²														
	Brush For touching up small areas only In case old NOA 10 M is exposed, fresh touch-up with NOA 10 M is necessary for better adhesion before antifouling is applied.															
Mixing Ratio by Volume	BASE 3.85 / HARDENER 1															
Pot Life after Mixing	<table border="0"> <tr> <td>6 hours (5°C)</td> <td>3 hours (20°C)</td> <td>2 hours (30°C)</td> </tr> </table>	6 hours (5°C)	3 hours (20°C)	2 hours (30°C)												
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Typical Package	16 L (BASE 12.7 L, HARDENER 3.3 L) Package may vary from country to country.
Japan Local Brand	NOA 10 M
Flash Point	BASE 24 °C, HARDENER 6 °C
Surface Preparation	Wash out salt and loose film with high-pressure water. Smooth the detached areas on existing coating with a scaler / disc sander, if necessary. Remove rust in the damaged / rusted areas with blasting or a disc sander prior to painting. Blast cleaned to ISO-Sa 2 ^{1/2} or power tool cleaned to St 3 is recommended.
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 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.

Data for reference

Table (1) = Overcoating interval

Undercoat → ↓ Topcoat	NOA 10 M					
	Min.			Max.		
	5°C	20°C	30°C	5°C	20°C	30°C
NOA 10 M	5 hours	3 hours	2 hours	Free	Free	Free
A-LF-Sea/ LF-Sea	5 hours	3 hours	2 hours	5 days	4 days	3 days
ECOLOFLEX SPC	5 hours	3 hours	2 hours	5 days	4 days	3 days
NIPPON U-MARINE FINISH	24 hours	14 hours	12 hours	10 days	7 days	5 days
NIPPON E-MARINE FINISH M	5 hours	3 hours	2 hours	Free	Free	Free
NIPPON A-MARINE FINISH	5 hours	3 hours	2 hours	5 days	4 days	3 days

(for LT HARDENER)

Undercoat → ↓ Topcoat	NOA 10 M					
	Min.			Max.		
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NIPPON A-MARINE FINISH	5 hours	4 hours	3 hours	4 days	3 days	3 days

<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) Two types of the hardener are available for Summer version and Winter version.
- 3) Consult Nippon Paint Marine Coatings on overcoating intervals in case of applying paints other than listed above on top of NOA 10 M.
- 4) When applied over existing coatings, NOA 10 M may cause discoloration. It does not deteriorate the coating performance.
- 5) When applied over existing CDP A/F (Controlled Depletion Polymer or Hydrophilic type), NOA 10 M may cause bubbling. Try to minimise the overcoating areas. The bubbling does not deteriorate coating performance, but it is recommended to rub the surface with a flat wooden plate, a brush or a broom, then, if necessary, touch up with A/F.
- 6) Store the paints in paint store.