

# Marine Paint Manual

Reference No. : 08 - 01

Issue Date: April 2010 (ES)

## UNIPROTECTOR

Two pack abrasion resistant aluminum pure epoxy anticorrosive. It provides long term protection in areas where severe corrosion may occur on newbuildings such as the underwater hulls, boottop, topsides, decks, holds, ballast tanks, etc. This winter workable epoxy coating is highly resistant to mechanical damages.

Suitable Use	For underwater hulls, topsides, boottop, cargo holds, decks, water ballast spaces & superstructure etc. where exposed to significant damages caused by abrasion and wear & tear.			
Type	Pure epoxy ( Aluminum / Abrasion resistant / Two-pack)			
Color	Bronze, Aluminum			
Gloss	Flat			
Volume Solids	62 ± 2% (ISO3233:1998)			
Typical Dry Film Thickness	100 ~ 150 μm			
Approx. Wet Film Thickness	161 ~ 242 μm			
Theoretical Coverage	4.13 m <sup>2</sup> / L (150 μm)			
Drying Time	Surface Dry	5 hours (5 )	3 hours (20 )	2 hours (30 )
	Dry Hard	15 hours (5 )	6 hours (20 )	3 hours (30 )
	Full Cure	14 days (5 )	7 days (20 )	5 days (30 )
Interval before Overcoating	Min.	16 hours (5 )	7 hours (20 )	4 hours (30 )
	Max.	10 days (5 )	7 days (20 )	5 days (30 )
Thinner	NIPPON MARINE THINNER 600 ( 0 ~ 10%, by weight )			
Application Method	Airless Spray	Tip range	0.53 ~ 0.64 mm	
		Fan angle	45° ~ 60°	
		( For T/U )	30°	
		Output pressure	150 ~ 200 kg / cm <sup>2</sup>	
	Brush	For touching up small areas only		
Mixing Ratio by Volume	BASE 2.56 / HARDENER 1			
Pot Life after Mixing	6 hours (5 )	2 <sup>1</sup> / <sub>2</sub> hours (20 )	1 hour (30 )	
Typical Package	16 Liter (BASE 11.5 L, HARDENER 4.5 L)			
	Package may vary from country to country.			
Japan Local Brand	UNIPROTECTOR			
Flash Point	BASE 24 , HARDENER 28			
Surface Preparation	Blast cleaned to ISO-Sa 2.5 or power tool cleaned to ISO-St 3.0 is recommended.			

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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 MSDS 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) Since pot life is shortened at high temperatures (1 hour at 30 °C), avoid mixing excessive amounts at one time under such conditions.
- 3) Store the paints in paint store.