

# Marine Paint Manual

Reference No. : E 10/16  
Issue Date: October 2019 (EU)

## UNIPROTECTOR (E)

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 (Product Code)*	Reddish Bronze (EPBD 9306)*		
	Silver Aluminum (EPBD 9206)*		
	Hardener (EPX 1703)*		*Not color code (See note 4)
Gloss	Flat		
Volume Solids	65 ± 2% (ISO3233:1998)		
Typical Dry Film Thickness	60 ~ 150 µm		
Approx. Wet Film Thickness	92 ~ 230 µm		
Theoretical Coverage	4.30 m <sup>2</sup> / L (150 µm)		
Drying Time	Surface Dry	4 hours (5°C)    2 hours (20°C)    90 minutes (30°C)	
	Dry Hard	20 hours (5°C)    12 hours (20°C)    8 hours (30°C)	
	Full Cure	12 days (5°C)    8 days (20°C)    4 days (30°C)	
Interval before Overcoating	Min.	20 hours (5°C)    12 hours (20°C)    8 hours (30°C)	
	Max.	8 months (5°C)    6 months (20°C)    4 months (30°C)	
Thinner / Code No.	NIPPON MARINE THINNER 600 (VEP 46 / VEP 47) / 0 ~ 10%, by volume		
Application Method	Airless Spray	Tip range	0.43 ~ 0.53 mm (0.017" - 0.021")
		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 17.2 / HARDENER 2.8		
Pot Life after Mixing	12 hours (5°C)    8 hours (20°C)    4 hours (30°C)		
Typical Package	20L (BASE 17.2L, HARDENER 2.8L)		
Flash Point	25°C		
Surface Preparation	Blast cleaned to ISO-Sa 2 <sup>1</sup> / <sub>2</sub> or power tool cleaned to St 3 is recommended.		
Generals	For commercial use only. Attention - Avoid exposure - obtain special instructions before use.		

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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) 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.
- 4) This code is internal product code of NPMEU. Please be careful as it isn't color code.