

Marine Paint Manual

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Issue Date: June 2018 (ES)

NEOGUARD TOUGHNESS

A high build, high solids and heavy-duty epoxy anticorrosive paint coating suitable for hatch coamings and cargo holds of bulk carriers. Since it has excellent resistance to impact, abrasion, chemicals, water and sea water, the coating provides long term corrosion protection for cargo spaces.

Suitable Use	Cargo holds (wet, dry)		
Type	Epoxy (High solids / High build / High hardness / Two-pack)		
Color	Gray, Red oxide		
Gloss	Flat		
Volume Solids	80 ± 2% (ISO3233:1998)		
Typical Dry Film Thickness	100 ~ 250 µm		
Approx. Wet Film Thickness	125 ~ 313 µm		
Theoretical Coverage	5.33 m ² / L (150 µm)		
Drying Time	Surface Dry	2 hours (5°C)	1 hour (20°C) 40 minutes (30°C)
	Dry Hard	20 hours (5°C)	7 hours (20°C) 5 hours (30°C)
	Full cure	10 days (5°C)	6 days (20°C) 5 days (30°C)
Interval before Overcoating (by self)	Min.	20 hours (5°C)	7 hours (20°C) 5 hours (30°C)
	Max.	14 days (5°C)	7 days (20°C) 5 days (30°C)
Thinner	NIPPON MARINE THINNER 600 (0 ~ 10%, by volume)		
Application Method	Airless Spray	Tip range	0.48 ~ 0.59mm
		Fan angle	55 ~ 62°
		(For T/U)	30°
		Output pressure	150~200 kg / cm ²
	Brush / Roller	For touching up small areas only	
Mixing Ratio by Volume	BASE 72 / HARDENER 28		
Pot Life after Mixing	5 hours (5°C)	3 hours (20°C)	1½ hours (30°C)
Typical Package	20 L (BASE 14.4 L, HARDENER 5.6 L)		
	Package may vary from country to country.		
Japan Local Brand	NEOGUARD TOUGHNESS		
Flash Point	BASE 24 °C, HARDENER 6 °C		

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Surface Preparation All surfaces to be coated should be clean, dry and free from contamination.
High pressure fresh water wash and remove all oil / grease, soluble contaminants and other foreign matters.
Blast cleaned to ISO-Sa 2 ¹/₂ or Power tool cleaned to ISO-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 period to keep solvent vapour 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) Store the paints in paint store.