

## NOA 60 HS

A superior grade pure epoxy with excellent abrasion resistant properties designed in full consideration of health & safety and environmental issues. The coating is suitable for crude oil tanks, marine ballast tanks, void spaces etc., land based storage tanks, and industrial storage facilities.

The coating is fully compliant with IMO Resolution MSC.288(87) and MSC.215(82).

### (1) Buff in color --- SI paint

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 from Lucent to Buff 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.

### (2) Gray, Red Oxide in color --- Non-SI paint

## 【 Product Data 】

Suitable Use	Anti-corrosive coating for crude oil tanks, water ballast tanks, void spaces etc.			
Type	Pure Epoxy			
Ref. No.	C			
Color	[ SI ] Buff, Lucent (Lucent is a contrasting color.) [ Non-SI ] Gray, Red oxide			
Gloss	Flat			
Volume Solids	75 ± 2% ( ISO3233:1998 )			
Dry Film Thickness	320 μm by two (2) coats			
Approx. Wet Film Thickness	427 μm			
Theoretical Coverage	0.317 Kg / m <sup>2</sup> 0.213 L / m <sup>2</sup> ( 160 μm )			
Specific Gravity	BASE : 1.53 ~ 1.63 HARDENER : 0.93 ~ 1.03 Mixed paint : 1.44 ~ 1.54			
Drying Time (DFT 160 μm)	Surface Dry	8 hours (5°C)	2 hours (20°C)	1 hour (30°C) 30 minutes (40°C)
	Dry Hard	75 hours (5°C)	18 hours (20°C)	10 hours (30°C) 7 hours (40°C)
Interval before Overcoating ( by self )	Min.	75 hours (5°C)	18 hours (20°C)	10 hours (30°C) 7 hours (40°C)
	Max.	14 days (5°C)	7 days (20°C)	5 days (30°C) 3 days (40°C)
Minimum Time before cargo loading / ballasting		14 days (5°C)	7 days (20°C)	5 days (30°C) 3 days (40°C)
Min. DFT	80 μm Film thickness shall be controlled as close as NDFT which should be evaluated by the 90 / 10 rule in accordance with PSPC 2.8.			
Max. DFT	1,800 μm Maximum dry film thickness is total thickness of coating systems.			

**【 Surface Preparation 】**

Steel Preparation	Use in accordance with our standard painting manual. Where necessary, remove weld spatter, smooth weld seams and remove sharp edges by rounding to a minimum radius of 2mm or subjecting to three pass grinding technique or at least equivalent process.
Surface Cleaning	<p>All surfaces to be coated should be clean, dry and free from contamination. High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil / grease, soluble contaminants and other foreign matters.</p> <p>Water soluble salts limit equivalent to NaCl : <math>\leq 50</math> mg / m<sup>2</sup> of sodium chloride.</p> <p>Dust quantity rating "1" for dust size class "3", "4" or "5". Lower dust size classes to be removed if visible on the surface to be coated without magnification. (ISO8502-3:1993)</p>
Shop Primers	<p><u>Approved shop primers</u>, compatible with NOA60HS, must be applied in accordance with PSPC MSC.288(87) and MSC.215 (82) to a minimum standard of Sa 2<sup>1</sup>/<sub>2</sub> (ISO 8501-1 :2007) and over blasting profile of 30 - 75 <math>\mu</math>m (ISO8503-1/2:1988)</p> <p><i>The shop primer which has passed a prequalification test shall be cleaned by sweep blasting, high-pressure water washing or equivalent method.</i></p> <p><i>Welding part, corroded and damaged area to the shop primer must be cleaned by abrasive blasting to Sa 2<sup>1</sup>/<sub>2</sub> (ISO8501-1:2007)</i></p> <p><u>Non approved shop primers</u> must be cleaned by abrasive blasting to Sa 2 (ISO8501 -1 :2007) and at least 70% of the intact shop primer should be removed.</p> <p><i>Welding part, corroded and damaged area to the shop primer must be cleaned by abrasive blasting to Sa 2<sup>1</sup>/<sub>2</sub> (ISO8501-1:2007)</i></p> <p><i>The surface profile on any areas where abrasive blasting has been carried out must be in the range of 30 - 75 <math>\mu</math>m (ISO8503-1/2:1988)</i></p>
Repair coating & touching-up	NOA60HS can be sprayed immediately after repair coating. The specified max. overcoating interval shall be maintained. When exceeding the specified overcoating intervals, surface to be overcoated, should be roughened with power-tool before application.
After Erection	<p>Erection joint welds and adjacent areas must be abrasive blasted to Sa 2<sup>1</sup>/<sub>2</sub> (ISO8501 -1 :2007) or power tool cleaned to St 3 (ISO8501-1 :2007).</p> <p><u>For inner bottom</u></p> <p>Damages, up to 20% of the area to be coated, shall be prepared with power tool to St 3 (ISO8501-1 : 2007).</p> <p>Contiguous damages over 25sqm or over 20% of the area to be coated, shall be abrasive blasted to Sa 2<sup>1</sup>/<sub>2</sub> (ISO8501-1:2007).</p> <p><u>For underdeck</u></p> <p>Damages, up to 3% of the area to be coated, shall be prepared with power tool to St 3 (ISO8501-1 : 2007).</p> <p>Contiguous damages over 25sqm or over 3% of the area to be coated shall be abrasive blasted to Sa 2<sup>1</sup>/<sub>2</sub> (ISO8501-1:2007).</p>



**【 Ambient Condition for Application 】**

Ambient condition            Max relative humidity : 85%  
                                     Min. steel temperature above Dew point : 3°C  
                                     Applicable ambient temperature : 0 ~ 40°C  
                                     Applicable surface temperature : 0 ~ 70°C

**【 Unit Size 】**

Japan            : 20kg ( BASE 18kg, HARDENER 2kg )  
Worldwide : 16L ( BASE 13.6L, HARDENER 2.4L )  
Package may vary from country to country.

**【 Flash Point 】**

25°C

**【 Shelf Life 】**

BASE            : 12 months under 23°C  
HARDENER    : 12 months under 23°C

**【 ID Code 】**

Buff BASE (SI)        : HFE358C  
Gray BASE            : HFU637C  
Red Oxide BASE       : HFU143C  
HARDENER            : HFE403C

**【 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.

**<Note>**

- 1) The information contained in this sheet is liable to modification from time to time in light of experience and our policy of continuous product development.
- 2) Store the paints in paint store.
- 3) Discoloration (blackening ) may occur on the surface due to sulphide in ballast water / sludge. Its anti-corrosive performance is not adversely affected by the discoloration.
- 4) Prior to use, obtain, consult and follow the SDS of this product.
- 5) Some regions will be supplied with NIPPON MARINE THINNER 615 instead of NIPPON MARINE THINNER 600.
- 6) Use products that comply with local regulations to clean the paint equipment.