

**TECHNICAL SPECIFICATION DOCUMENT (MARINE PAINTING SPECIFICATION)****2K EPOXY MARINE PAINT -WHITE /GREY (AIR GUN SPRAY)****Product Name:** Nippon Epoxy Marine Paint**Supplier:** Nippon Paint Lanka (Pvt) Ltd**Color:** White /Grey**Finish:** Gloss**Product Type / Chemistry:** Epoxy**Recommended Use:** This system is ideal for marine, industrial, and architectural applications where enhanced resistance to corrosion, salty water, and chemicals are required.**INTRODUCTION**

Marine painting is a high-performance wet paint system using **2K epoxy marine coating** applied by **air gun spray**, designed for harsh industrial/coastal exposure and improved chemical resistance.

System Composition

- **Primer:** 2K Epoxy Primer (marine grade)
- **Topcoat:** 2K Epoxy Topcoat (marine grade)

Optional Upgrade (UV Stability)

- If UV durability is required for prolonged outdoor exposure, a **Polyurethane (PU) topcoat** can be proposed as an optional final coat.

Base Materials Applicable (Marine Painting)

- **EG, MS, GI, Al/Zn** (and Aluminum where specified by project)

TECHNICAL PROPERTIES

Property	Specification
Product Type	Pure Epoxy Finish (Two Pack)
Finish	Gloss
Solid Content	55 – 60% by volume
Specific Gravity	Approx. 1.30 kg/L
Flash Point	35°C
Consistency	Ready to use
Mixing Ratio (by weight)	Base : Hardener = 2 : 1
Pot Life	1 hour
Thinner	Nippon Epoxy Thinner
Packing	1 L, 4 L
Shelf Life	Up to 3 years (in tightly sealed container)

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**TECHNICAL SPECIFICATION DOCUMENT (MARINE PAINTING SPECIFICATION)****COVERAGE**

- **Theoretical Coverage: 110 – 130 sq.ft/liter**
(10 – 12 sq.m/liter)
- Based on **wet film thickness of 45 – 65 microns**
- Approximate **dry film thickness (DFT): 30 microns per coat**

Actual coverage may vary depending on surface profile, substrate condition, application method, wastage, and operator practice.

Drying Time (at 30°C)

Stage	Drying Time
Touch Dry	1 – 2 hours
Overcoating Time	8 hours
Hard Dry	24 hours

RECOMMENDED NUMBER OF COATS

- **2 Coats** (standard)
 - 1 coat primer
 - 1 coat topcoat

Additional coats or PU topcoats may be applied depending on project exposure conditions and required durability.

SURFACE PREPARATION**Metal Surfaces**

- Remove rust, scale, dirt, grease, and old loose paint using:
 - Wire brush
 - Sandpaper
 - Abrasive methods
 - Shot blasting / wire wheel (preferred for best results)
- Ensure the surface is **clean, dry, and free from contaminants** before painting.
- For improved adhesion, apply **Nippon Epoxy Primer** as the undercoat.

MIXING AND APPLICATION INSTRUCTIONS

The product consists of **Base** and **Hardener**, supplied in separate containers.

Mixing Procedure

1. Pour the **hardener** into the **base resin**.
2. Mix thoroughly for **3 to 5 minutes** using a propeller-type mixer or equivalent.
3. Continue mixing until a **uniform color and homogeneous blend** is achieved.

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**TECHNICAL SPECIFICATION DOCUMENT (MARINE PAINTING SPECIFICATION)****Important Notes**

- Do not over-think the product.
- Use only the recommended thinner if required.
- Ensure adequate ventilation during mixing and application.
- Apply within the stated **pot life of 1 hour**.

Application Method

- **Recommendation:** Air Gun Spray
- Also applicable by:
 - Brush
 - Roller
 - Spray

CLEANING

- Clean all tools and equipment immediately after use with:
Nippon Epoxy Thinner

SAFETY PRECAUTIONS

- Provide adequate ventilation during surface preparation and paint application
- Wear:
 - Safety gloves
 - Eye protection
 - Disposable respirators
- Keep away from food, children, and ignition sources
- Avoid contact with eyes, skin, and clothing
- Do not inhale vapours
- In case of contact, wash thoroughly and seek medical attention if necessary

TYPICAL SYSTEM SUMMARY

Item	Details
Coating System	2K Epoxy Marine Paint
Application	Air Gun Spray
Finish	Gloss
Coverage	110 – 130 sq.ft/liter
Drying Time	Hard Dry: 24 Hours
Coats	2 Coats
UV Upgrade	Optional PU Topcoat
Suitable Substrates	EG, MS, GI, Al/Zn, Aluminum

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DISCLAIMER

The information provided in this Technical Data Sheet is intended as a general guide to product performance under standard test conditions. Actual performance may vary depending on substrate condition, surface preparation, environmental conditions, application method, and site practice. Users should verify suitability for the intended application before use.

MANUFACTURER / REFERENCE PRODUCT INFORMATION

Nippon Paint Lanka (Pvt) Ltd

Nippolac Towers,
69A, Buthgamuwa Road,
Rajagiriya, Sri Lanka.

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