

ELPLUS 854

Marine Anti-Fouling Tiecoat

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1. Product Overview

ELPLUS 854 is a dedicated marine tiecoat (intermediate coating) developed specifically for marine anti-fouling coating systems. It serves as a critical bonding layer between the underlying anti-corrosive primer and the specialized anti-fouling topcoat. Featuring exceptional inter-coat adhesion and outstanding barrier properties, ELPLUS 854 significantly extends the service life and performance of the overall anti-fouling and anti-corrosive system.

2. Core Features

- **Superior Inter-Coat Adhesion:** Provides the highest level of bonding strength between the anti-corrosive primer and the subsequent anti-fouling topcoat, effectively preventing coating delamination and peeling under severe marine environments.
- **Excellent Physical Barrier Protection:** Further enhances the physical barrier capabilities of the coating system, effectively blocking moisture, chlorides, and corrosive elements from penetrating the hull substrate.
- **Optimized Application Efficiency:** Features highly adjustable overcoating intervals and optimized drying times, providing excellent application flexibility and greatly improving operational efficiency in drydocks and shipbuilding.

3. Applications

- Designed as a tiecoat for underwater hull areas, boot-tops, and flat bottoms of commercial vessels.
- Suitable for both newbuilding projects and drydock maintenance & repair (M&R) operations.
- Compatible with a wide range of advanced anti-fouling topcoats and anti-corrosive primers.

4. Typical Technical Properties

Properties	Typical Data	Test Method
Appearance	Red / Light Gray	Visual
Coating Type	Specialized Marine Tiecoat	-
Solid Content	≥ 55%	ISO 3233
Recommended DFT	75 μm ~ 125 μm	-
Tack-free Time	30 - 60 minutes	25°C, 50% RH
Full Cure Time	24 - 48 hours	25°C, 50% RH
Overcoating Interval (Min.)	4 hours (25°C)	-
Overcoating Interval (Max.)	Extended (Refer to application guide)	-

5. Application Instructions

- Surface Preparation:** The preceding anti-corrosive primer must be clean, dry, and free from any contamination, grease, or zinc salts. Ensure the underlying primer is within its specified overcoating window before applying ELPLUS 854.
- Application Method:**
 - Airless Spraying (Recommended):** Provides uniform film thickness and optimal barrier protection.
 - Brushing / Roller:** Suitable for stripe coating, edge protection, or small-area touch-ups.
- Environmental Conditions:** The substrate temperature must be at least 3°C above the dew point to prevent condensation. Application is not recommended when relative humidity exceeds 85%.

6. Packaging & Storage

- Packaging:** Standard marine packaging (e.g., 20 Liters / drum).
- Storage Conditions:** Store in a dry, shaded, and well-ventilated warehouse, away from heat sources and direct sunlight.
- Shelf Life:** 12 months from the date of manufacture under proper, unopened storage conditions.

7. Health & Safety

- Application must be carried out in a well-ventilated environment.
- Operators must wear appropriate personal protective equipment (PPE), including safety goggles, respirators, and protective clothing.
- For complete safety and environmental information, please refer to the product's Safety Data Sheet (SDS).

Technical Support & Contact

 **ELPLUS Enterprise Inc.**

Taiwan Headquarters

TEL: +886-3-3689242

E-mail: sales.elplus@msa.hinet.net

Website: <https://elplus.com.tw>