

AF MASTER ATHENA

PRODUCT CHARACTERISTICS

Description

AF MASTER ATHENA is tin and cybutryne free anti fouling combined with 3 types of biocides, so that the ability to prevent fouling on the bottom of the ship becomes more perfect. The surface of antifouling is continuously renewed by slowly dissolving binder. Suitable on approved primers and tie coats on aluminium and carbon steel substrates.

Recommended use

This product can be applied on metal and wood substrate suitable for use at Newbuilding or Maintenance and Repair Boats, for in-service periods of up to 30 months.

Colors

Available in Red, Brown and Black. Contact your Pacific Paint Sales / Technical for availability.

Product Data

Parameters	Values
Solid Volume	62 ±2 %
Gloss Level (angles 60°C)	matt
Flash point	37 °C [98.6 °F]
Density	1.72kg / l
Dry film Thickness	75 – 175 µ
Wet Film Thickness	127 – 296 µ
Theoretical Coverage Rates	7.87 – 3.37 m / l
Dry Temp. Resistance	N/A
Time to Flooding	8 hours @ 25°C
Limitations	This product is for boats sailing on sea water only. For maximum results, apply epoxy tie coat as an under coat before the anti-fouling application

SUBSTRATE & SURFACE PREPARATIONS

General

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination that can reduce adhesion via SSPC-SP1 solvent cleaning

Metal

Abrasive blasting is recommended to remove rust and mill scale. Solvent clean surfaces according to SSPC-SP1, then perform a commercial blast to SSPC-SP6 for mild exposures. For immersion service and severe environments, solvent clean surfaces according to SSPC-SP1 first, then perform a near-white blast SSPC-SP10. Used sealer or tie coat before anti fouling applied

Previously Painted Surfaces

Existing old self-polishing or ablative antifouling: Remove possible oil and grease etc. with suitable detergent, followed by high pressure fresh water cleaning for a thorough removal of any possible weak structure of leached antifouling. Allow the surface to dry before coating.

Sealer: Whether to use a sealer coat/tie coat or not depends on the type and condition of the existing antifouling

PRODUCT DATA SHEET



AF MASTER ATHENA

MIXING & THINNING

Mixing

Power mix until smooth consistency.

Thinning

May be thinned up to 0.5% by volume with Thinner 2 for spray application

APPLICATION EQUIPMENT

Listed below are the general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray application (general)

Use the adequate air volume for the correct operation. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

Note: the following equipment has been found suitable; however, equivalent equipment may be substituted.

Conventional spray

Agitated pressure pot equipped with dual regulator, a 3/8" I.D. minimum material hose. A 50' maximum material hose, a .70" I.D. fluid tip and an appropriate air cap. Use a 3/8" minimum I.D. material line. Hold the gun 8-10 inches from the surface and at the right angle.

Airless spray

Pump Ratio: 30: 1 (mins)
GPM Output: 3.0 (mins)
Material Hose: 3/8" I.D. (mins)
Tip Size: 0.017-0.019"
Output PSI: 1500-2000
Filter Size: 60 mesh
PTFE packing are recommended are available from the pump manufacturer.

Brush & Roller (ONLY recommended for stripe coating and small areas)

Spray application is preferred. May be brushed or rolled using a natural bristle brush or a short nap roller.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	120°F (49°C)	165°F (49°C)	120°F (49°C)	98%

Do not apply or cure the material when the surface temperature is below 35°F (2°C) or less than 5°F (3°C) above the dew point. Special thinning and application techniques maybe required above or below normal conditions.

DRYING TIME

Surface Temperature	Surface Dry (hours)	Hard Dry (hours)
80°F (27°C)	2	8
90°F (32°C)	1	4
100°F (38°C)	30 minutes	2

HEALTH AND SAFETY

Safety

Read and follow all caution statements on this product datasheet and on the MSDS for this product. Employ normal workman like safety precautions. Use adequate ventilation and wear gloves; or use protective cream on face and hands if hypersensitive. Keep the container closed when not in use.

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Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor the exposure levels to ensure all personnel are below guidelines. If not sure or if not able to monitor the levels, use an OSHA/NIOSH approved respirator.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. In confined areas, workmen must wear the appropriate respirator protection. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Clean up

Use Thinner 2 In case of spillage, absorb, and dispose of in accordance with the local applicable regulations.

PACKAGING, HANDLING AND STORAGE

Shipping Weight (Approximate)

5 Liters (8.60 Kg)
20 Liters (34.40 Kg)

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Pacific Paint's Safety Data Sheet for this product along with the Product Data Sheet.

Storage Temperature & Humidity

Temperature : 40 – 110°F (4-43°C)
Humidity: 0 – 100%

Shelf Life

24 months minimum at 32°C (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers

WARRANTY

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