



RSI
INDUSTRIAL
PAINTS Inc.

ANTIFOULING COATING RAF-301

PRODUCT DESCRIPTION

RAF-301 is a single component and self-polishing anti fouling .It is pigmented with copper and zinc for the protection against fouling for periods up to 12 months depending on area and conditions. It is suitable for protection on vessels operating in not overly aggressive fouling waters. This product complies with the International Convention on the Control of Harmful Antifouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26).

Recommended use:

For both new buildings and maintenance of underwater hull and boot top for up to 12 months dry-docking interval.

GENERAL PROPERTIES

Adhesion	Excellent on RSI marine coating system.
Mechanical Properties	Good abrasion properties, good impact resistance.

PHYSICAL PROPERTIES

Colors	Red brown, pink
Finish	semi flat-matt
Volume Solid	54±3 %
Theoretical spreading rate	5.4 m ² /l @ 100 micron
Flash point	35°C
Specific gravity	1.7±0.1 kg/liter
V.O.C content	390 g/l
Shelf life	1 years (25°C) from time of production. Storage environment should be ventilated and away from sunlight and high temperature (above 30 °C). Depending on storage conditions, mechanical stirring maybe necessary before usage.

APPLICATION

Method	Airless spray	Brush and Roller: May be used. Care must be taken to achieve the specified dry film thickness.
Thinner (max. vol.)	RTH-113 (5%)	RTH-113 (5%)
Pump ratio	30:1	
Nozzle orifice	0.019" – 0.025"	
Nozzle pressure	150 bar	
Cleaning of tools	RTH-113	
Indicated dry film thickness	60-150 microns	
Indicated wet film thickness	110-280 microns	

DRYING AND CURING TIMES

Condition	Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product. Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with: * Good ventilation (Outdoor exposure or free circulation of air) * Typical film thickness * One coat on top of inert substrate
Surface temperature	23 °C
Surface Drying	1 hour
Deep Drying	3 hours
Full dry	24 hours
Overcoat interval, min	8 hours

APPLICATION CONDITIONS

Surface preparation

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.

Anticorrosive primer system suitable for purpose. Recommended tie coat for the subsequent antifouling coat.

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition. Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 200 bar.	New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition. Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 340 bar.

REMARKS

Film thickness

May be specified in another film thickness than indicated depending on purpose and area of use.

This will alter spreading rate and may influence drying time and over coating interval. Normal range dry is: 60-150 micron

Over coating intervals

As per specification depending on existing hull condition, trading pattern, and intended service life. No maximum recoat interval, but after prolonged exposure to polluted atmosphere, remove accumulated contamination by high pressure fresh water cleaning.

Aluminum hulls

May be specified on aluminum hulls provided an efficient anticorrosive system in minimum 2 coats of 150 micron each has been applied. The anticorrosive system must stay intact during service in order to avoid corrosion of the aluminum caused by the cuprous oxide content of the Paint.

Remarks

This product contains heavy particles. Stir well before use. By providing a constantly active surface during its lifetime, this antifouling is gradually sacrificed in the process.

Colors/Color stability

The initial color of the paint may vary within the same shade from batch to batch. After exposure to seawater, the initial color may vary within the same shade. This has no influence on the performance of the antifouling.

SAFETY

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult RSI material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes.

Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

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Product data sheet RAF-301

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