

PRODUCT CHARACTERISTICS

Description

EXPLORER AFR800 ECOMAR is a hard antifouling paint that provides long-lasting protection against fouling organisms such as slime, aquatic plants, and marine animals, thanks to its effective combination of copper oxide and co-biocides.

It is suitable for use in both fresh and salt water environments, and can be burnished to deliver a smoother finish, optimizing hydrodynamic performance.

If required, the surface can also be scrubbed and cleaned during service without compromising effectiveness.

Recommended use

Suitable for steel, wood, and GRP boats when applied over a suitable primer.

For aluminium hulls, only white colour must be used to avoid galvanic corrosion.

Features

Reduced fuel consumption, low-friction surface via special resin matrix structure

Fast return to service, quick launching

Less paint consumption, high coverage

PRODUCT DATA

Product Code
AFR800

Gloss
Matt

Standard Colour*
Black

[*Other shades available according to the current assortment list.]

Mixing Ratio
Single component

Specific Gravity
1.50 ±0.1 kg/L

Volume Solids
55 ±3%

Pack Size
2,5L, 5L, 15L

Reference dry film thickness
50 µm

PRODUCT SAFETY

Flash Point
25 °C [77 °F]

VOC Content [Volatile Organic Compound]	Value
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Directive 2010/75/EU	422 g/L
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VOC values may vary depending on the selected shade. For accurate information, please refer to Section 8. and 9 of the Safety Data Sheet [SDS].

Handling

Handle with care. Prior to and during application, carefully observe all safety labels on the packaging and paint containers.

Ensure compliance with all applicable local and national safety regulations.

Always refer to the Wilckens Material Safety Data Sheet (MSDS) and the Product Data Sheet (PDS) for comprehensive guidance.

APPLICATION DATA

Application Methods

Tool	Thinning Max. Vol. [Keep thinning at an absolute minimum]
Airless spray	10%
Conventional spray	12%
Brush / Roller	10%

Thinner : UNIVERSAL TSA 180 THINNER

Cleaner : UNIVERSAL TSA 180 THINNER

Nozzle pressure : 15 MPa [150 kp/cm² 2100 psi]

Nozzle orifice : 0.38-0.53 mm [0.015-0.021"]

Spray angle : 40-80°

Application Conditions

Apply only to clean and dry surfaces, ensuring that the surface temperature is at least 3°C above the dew point and maximum relative humidity 85% to prevent condensation.

Ensure adequate ventilation in confined or enclosed spaces during both application and drying phases.

Mixing Instructions

Stir the contents of each component thoroughly before mixing. Combine the base and curing agent in the specified mixing ratio and mix thoroughly to ensure uniformity.

- Copper-containing antifouling must not be in electrical contact with aluminium hulls or aluminium components to prevent galvanic corrosion.

- Apply two coats of antifouling paint at 50 µm dry film thickness each. Apply an additional coat around the waterline and high-wear areas for enhanced durability.

Film Thickness	Dry	Wet
Reference	50 µm	90 µm
Minimum	50 µm	90 µm
Maximum	150 µm	270 µm

Theoretical Spreading Rate*: 11 m² / L

*At the specified reference dry film thickness.

Recommended Number of Coats: 2

SURFACE PREPARATION

All surfaces to be coated must be clean, dry, and free from contaminants. Surface preparation should be carried out in accordance with ISO 8504 standards.

Steel Surfaces

Abrasive blast-cleaning to Sa 2½ as per ISO 8501 is recommended.

Power tool cleaning to a minimum standard of St 2 (ISO 8501) may be acceptable depending on the intended exposure conditions.

Previously Coated Surfaces

For guidance on surface preparation over existing coatings, please contact the Wilckens technical office.

DRYING / OVERCOATING DATA

Drying Time	5 °C [41 °F]	10 °C [50 °F]	23 °C [73 °F]	30 °C [86 °F]	35 °C [95 °F]
Touch Dry	3 Hours	1.5 Hours	45 Min.	20 Min.	20 Min.
Hard Dry	6 Hours	3 Hours	2 Hours	1.5 Hours	1.5 Hours
Dry to Launch	16 Hours	12 Hours	10 Hours	8 Hours	5 Hours

The provided data should be regarded as general guidelines only. Actual drying times and recoating intervals may vary—potentially being shorter or longer—depending on several factors, including film thickness, ventilation, humidity, the characteristics of the underlying paint system, and specific requirements for early handling or mechanical strength.

A complete coating system, including all relevant parameters and special conditions, can be detailed in a system sheet. The stated data is based on a dry film thickness of 50 microns, measured under controlled or specifically defined conditions.

Overcoating Interval	5 °C [41 °F]	10 °C [50 °F]	23 °C [73 °F]	30 °C [86 °F]	35 °C [95 °F]
Minimum	12 Hours	8 Hours	5 Hours	4 Hours	2.5 Hours
Maximum	Extended	Extended	Extended	Extended	Extended

Overcoating intervals depend on the subsequent conditions of exposure. If the maximum overcoating interval is exceeded, mechanical roughening of the surface is required to restore intercoat adhesion.

Before overcoating after exposure to contaminated environments, the surface must be thoroughly cleaned with high-pressure fresh water (min.240 bars - max.420 bars) and allowed to dry completely.

STORAGE

Shelf Life

Ambient Temperature: 25°C [77°F]

Shelf Life: 2 years from the date of production, when stored in original, unopened containers under recommended conditions.

After this period, the product must be re-inspected to ensure suitability for use.

Prolonged storage at elevated temperatures may shorten shelf life and adversely affect product quality.

Storage Conditions

The product must be stored in full compliance with all applicable national regulations. Avoid exposure to air and extreme temperatures. To ensure the full shelf life of the product, keep the container tightly sealed between uses and store it at a temperature between 5°C (41°F) and 35°C (95°F).

Protect from direct sunlight at all times.

Disposal

Do not dispose of paint containers or pour residual paint into drains, watercourses, or the environment. Use designated waste disposal facilities.

It is recommended to allow leftover paint to harden prior to disposal.

Disposal of remaining material must be carried out in consultation with local environmental authorities and in accordance with relevant regulations.

HEALTH AND SAFETY

Please observe all precautionary statements and safety symbols displayed on the product container.

Use only in well-ventilated areas. Avoid inhalation of spray mist and prevent contact with skin.

In case of skin contact, immediately remove spillage using a suitable cleanser, followed by washing with soap and water.

In case of eye contact, flush thoroughly with clean water and seek medical attention immediately.

Wear appropriate protective gloves, clothing, and eye/face protection during application.

For comprehensive information regarding health and safety hazards, protective measures, and first aid procedures, please consult the Material Safety Data Sheet (MSDS).

DISCLAIMER

The data, specifications, instructions, and recommendations provided in this data sheet are based on test results and practical experience obtained under controlled or specifically defined conditions.

Their accuracy, completeness, or suitability for any particular application or actual conditions of use must be evaluated solely by the Buyer and/or User.

We reserve the right to modify or update the information provided without prior notice.

For further information, please contact your local representative or visit www.wilckens-yachtpaint.com.

