

PRODUCTS

FLAG Cruising Antifouling

Self-eroding antifouling suitable for craft up to 8 knots in low fouling areas, fresh water or bilge-keelers on drying moorings. Free of booster biocide for less environmental impact. Extremely good value for money. Light blue, dark blue, red, black, steel white, 2.5ltr cans (25sqm coverage). Apply 2 coats and an extra coat around the waterline and leading and trailing edges.

FLAG Performance Extra

Semi-hard top quality antifouling for most craft up to 40 knots in all areas of fouling. Also suitable for trailered craft and drying moorings. Well up to the performance of top leading competitor products relying on maximum copper content rather than booster biocide to reduce environmental impact. Light blue, dark blue, red, black, steel white, 2.5ltr cans (25sqm coverage). Apply 2 coats and an extra coat around the waterline and leading and trailing edges.

FLAG Multi Purpose Metallic Primer

Quick drying universal primer suitable for above and below the waterline on all substrates with good waterproofing, rot and corrosion resisting performance. Use on metal keels, bare wood and as a primer or barrier coat under antifouling. Aluminium finish. 1ltr and 2.5ltr cans.

FLAG Antifouling Thinner

Suitable as a thinner or tool cleaner for all FLAG antifouling products including Multi Purpose Metallic Primer and most brands of conventional antifouling. 1ltr can.

FLAG Bilge Paint

High quality solvent based paint that's tolerant to oil, grease, petrol, diesel, seawater and anything else in the bilge! Excellent opacity Off-white. 1ltr can. Thinner/brush clean: White spirit.

FLAG Yacht Varnish

High gloss clear varnish with good flexibility for interior and exterior use where wood can expand or contract according to temperature or moisture content. Good UV resistance and non yellowing. Hard enough to take the knocks and bangs of everyday boating. 1ltr can.

FLAG Rust Converter

Water based resin system suitable for over-coating corroded metal. Designed to encapsulate the rust within the paint film. Can be left as a black satin finish in its own right or over-coated with most solvent based paints (essential if used underwater on keels etc). Works well on rusty anchor chains, anchors, winches, engine bearers etc. Also for use on plastic and wood. 250ml and 1ltr can.

COLOURS

FLAG Cruising and Performance Extra Antifouling



Bilge Paint



Multi Purpose Metallic Primer

HOW IT WORKS

All FLAG antifouling work using high concentrations of copper. Copper is a naturally occurring element in our environment and in fact in small concentrations is an essential trace element in plant growth.

When mixed with a resin binder, the active copper is applied to the bottom of your boat such that some of the copper is always in direct contact with the water. The copper does not poison fouling agents like the old banned TBT (Tri butyl tin), but reacts with sea water to create 'free ions' or charged particles which in turn creates an unfriendly environment for sea creatures to adhere too. (think licking the end of a 9V battery and you'll get the idea!)

FLAG does not use any additional booster biocides in its formulations, maintaining only the use of naturally occurring inorganic compounds as the active ingredient.

FLAG Performance Extra has one of the highest concentrations of copper currently available and is made hard enough to be used on all types of craft in all environments.

FLAG Cruising Antifouling has less copper concentration and is made slightly softer so that fresh copper is exposed more quickly and is therefore more suitable for displacement craft in medium fouling areas.

FLAG Antifouling can be used on all substrates (wood, GRP, steel, ferro etc) except aluminium as galvanic action between the copper and aluminium will lead to serious corrosion.



WHICH ONE?

	max time before launch	overcoat time	touch dry	thinners	coverage	coats	hull	colours	finish	max speed
Which FLAG Antifouling is right for you?										
FLAG Cruising Antifouling	2 mths	6hrs	2hrs	FLAG Antifouling Thinner	10sqm/l	2	GRP, wood, steel, ferro-cement	light blue, dark blue, red, black, steel white	self-eroding	8 knots
Do you need a professional race proven product?										
FLAG Performance Extra Antifouling	2 mths	6hrs	2hrs	FLAG Antifouling Thinner	10sqm/l	2	GRP, wood, steel, ferro-cement	light blue, dark blue, red, black, steel white	semi-hard	40 knots
Do you need a Primer?										
FLAG Multi Purpose Metallic Primer	n/a	6hrs	2hrs	FLAG Antifouling Thinner	10sqm/l	1 or 2	all types	aluminium finish	semi-hard	n/a
What's special about Bilge Paint?										
FLAG Bilge Paint	n/a	16hrs	4 - 6hrs	White Spirit	10sqm/l	1 or 2	all types	off-white	hard	n/a
Why FLAG wood care products?										
FLAG Yacht Varnish	n/a	16hrs	1 - 2hrs	White Spirit	14sqm/l	2 or more	wood	clear	flexible	n/a
What else do you need?										
FLAG Rust Converter	n/a	1 hour	30 mins	Water	15sqm/l	as necessary	iron/steel	black	hard	n/a

FLAG Antifouling Testimonials

VALUE FOR MONEY
YACHTING MONTHLY
BEATING THE BARNACLES TEST
 Value for money. Protected well.
 ★★★★★

ANTIFOULING TEST
 "One of the best".
 ★★★★★

HIGHLY RECOMMENDED
SAILING TODAY VERDICT
 Highly recommended! ...Up to the job.
 ✓✓✓✓

BOAT OWNER
PRACTICAL BOAT OWNER
 ...seems to have done an excellent job!
 ★★★★★

MOTOR BOATS
MOTOR BOATS MONTHLY
 "MBM Recommended" Excellent value.
 ★★★★★

FLAG PAINTS



HOW TO APPLY FLAG ANTIFOULING

Remember:

- Preparation is everything. If the substrate isn't smooth and sound, you can't blame the paint you put on top of it!
- Antifoulings change colour after immersion, generally turning a little lighter after a couple of weeks due to oxidation. This also shows the paint is working.
- Do not use FLAG copper based antifoulings on aluminium outdrives or zinc anodes.
- Iron keels should be ground and brushed until bright, any rust treated with FLAG Rust Converter and then coated with FLAG Multi Purpose Metallic Primer before antifouling.
- FLAG Antifoulings are compatible with most other conventional antifouling but if in doubt, a barrier coat of FLAG Multi Purpose Metallic Primer should be applied first.

To apply:

- Wear protective clothing and work in an open environment. Overalls, gloves, hat and protective eye wear are essential and a mask is advisable too. Tip: tape up the sleeve cuffs of your overalls with some masking tape to stop paint running up your sleeve when applying overhead.
- **STIR THE PAINT!** Antifouling paint contains copper which is very heavy and easily settles. Use a flat blade stirring knife or similar (an old screwdriver won't do!) and when you think you have stirred it enough, stir it again! Keep on stirring it before pouring some out into your roller tray. Tip: Keep the cans indoors before using them as it makes them easier to use and store the cans upside down so you start with the copper at the top.
- Although sprayable, the most common methods used are brush and roller. Use a short mohair or sponge roller suitable for gloss paint (emulsion rollers will disintegrate very quickly). Smaller radiator size rollers are easier to use with such a viscous paint but may take a little longer. Use a brush to reach all the parts inaccessible to the roller. Tip: put your tray inside a polythene shopping bag before use so the tray stays clean.
- Apply a minimum of 2 coats with extra around the waterline, leading and trailing edges and anywhere else where turbulence may occur.
- Ensure the paint has enough time to cure properly before immersion to ensure adhesion. It won't dry underwater! Applying antifouling in warm windy conditions will accelerate drying but may lead to an 'orange peel' effect finish. Generally FLAG Antifoulings do not need extra thinning but up to 10% can be added to assist applications in quick drying conditions.

How much do I need:

Waterline length	Motorboat					Long keel					Fin keel					
	Feet	20	25	30	35	40	20	25	30	35	40	20	25	30	35	40
	Metres	6.1	7.6	9.1	10.7	12.2	6.1	7.6	9.1	10.7	12.2	6.1	7.6	9.1	10.7	12.2
Litres required for 2 coats		4	5	7	9.5	12	3	4	5.5	7	9	2.5	3.5	5	7	9.5

WHY IS IT RECOMMENDED TO APPLY 2 COATS?

In order to gain the best performance from your antifouling, we would always recommend two coats. This is because however well you prepare the bottom of your boat, the difference in height between the high and low points of the substrate surface are invariably going to be greater than a single film of antifouling. That means the first coat dries to leave the 'valleys' coated but the 'peaks' still sticking out of the paint. Within a short space of time, algae will adhere to the peaks, followed by weed and later animal growth, by which time it's grown a bridge across the valleys and the system has failed. By applying 2 (or more) coats, the substrate is completely covered thereby producing an homogenous surface that does not allow any fouling to attach itself. Don't be tempted to take a look at the hull you've just painted and say it looks covered either remember for a paint to dry it will have to lose its solvent carrier and thereby shrink back somewhat.

As with all antifouling paint, it's the amount of active ingredient that is applied to the hull which is the important attribute. Thinning it down or buying 'extra value' cans with so much 'free' may give you more paint but isn't necessarily applying more antifouling. FLAG Antifoulings are supplied in 2.5 litre cans and contain some of the highest concentrations of active ingredients in their class.

About FLAG Paints

Founded in 1939, FLAG Paints Ltd moved to Burnham-on-Crouch in Essex in 1988 and started manufacturing marine paints shortly thereafter. Within easy access of the River Crouch and its high sediment content, it was natural to develop antifouling paints that could deal with some of the worst fouling around the UK coast. This development has now been taken forward to include the Mediterranean and other warm seas. Managed by enthusiastic sailors, FLAG Paints is always working to make your boating more enjoyable and cost effective as all products are manufactured on site in the UK.

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Handle with care. Before and during use, observe all safety labels on packaging and paint containers, please consult Material Safety Data Sheets and follow all local or national safety regulations. For technical reasons connected with colour reproduction and paint manufacturing the colours and finishes are for approximate guide purposes only.

THE PROFESSIONAL SOLUTION

MARINE PRODUCTS



Boat: Premier Flair, Elan 410 Skipper: Jim Macgregor, Spinnaker Yachts Paint: FLAG Performance Extra Antifouling, Steel White
 Wind gusting to 35knots during the 2012 RORC, IRC National Championships, where "Flair" became the IRC class 2 National Champion and was 2nd overall
www.flagpaints.co.uk

Photograph: Paul Wain / jwpictures.com