

97.01.02

((LABEL))

AWLGRIP(R)

AWLSTAR(TM)

ANTI-FOULING

GOLD LABEL

BP501 Light Blue

Tin Free Co-Polymer

COMMERCIAL

DANGER POISON

FLAMMABLE

SKIN IRRITANT

EYE IRRITANT

READ THE LABEL AND TECHNICAL BULLETIN BEFORE USING

KEEP OUT OF REACH OF CHILDREN

WARNING!

SEE BACK PANEL FOR
PRECAUTIONARY STATEMENTS.

GUARANTEE

Cuprous Oxide.....	40.36%
Copper (as elemental)	35.56%

REGISTRATION NO. 21409
PEST CONTROL PRODUCTS ACT

BATCH NO. SEE BOTTOM OF CAN

CONTAINS PETROLEUM DISTILLATES

SELF-POLISHING RACING TYPE

3.785 L

U.S. PAINT

831 So. 21st St.
St. Louis, MO
63103-3092
USA

IMPORTANT! DO NOT incorporate into the multiple component U.S. PAINT Coating System, any thinner, additive, modifier, converter, or related product produced by any manufacturer other than U.S. Paint. Any such substitution can jeopardize the unique chemical characteristics provided by each of the U.S. PAINT Coating Systems.

PRECAUTIONARY STATEMENTS. WARNING! HAZARD TO HUMANS AND DOMESTIC ANIMALS Corrosive, causes eye irritation. Harmful if absorbed through skin.

CAUTION: Keep away from heat, sparks and flame. Vapours heavier than air cause health and explosion hazards. Keep containers tightly closed when not in use. Avoid contact with eyes, skin and clothing. Do not breathe vapours or spray mist. Handle with care and mix only in a closed container. Use only in well ventilate areas. When using do not eat, drink or smoke. Take a shower immediately after work. Wear freshly laundered clothes daily. Wash hands and face before eating, drinking, smoking and using the toilet. Store and wash all protective clothing separately from household laundry. Wash protective clothing in detergent and hot water before reuse. Use an air-fed respirator (NIOSH approval #TC- 19C-C) with full face mask during handling and applying. Wear chemical resistant gloves and footwear and chemical resistant clothing with head covering at all times during handling and applying.

FIRST AID: In case of skin contact, remove contaminated clothing and immediately wash skin with soap and water. Get medical attention. Wash contaminated clothing before reuse. If inhaled, remove to fresh air. Use artificial respiration if breathing has stopped. Get medical attention. If in eyes, immediately flush with plenty of water. Get medical attention.

TOXICOLOGICAL INFORMATION: If swallowed, DO NOT induce vomiting. This product contains petroleum distillates. Get medical attention.

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms. Do not contaminate water. Do not apply directly to water by cleaning of equipment or disposal of wastes. Do not allow chips and dust generated during paint removal to enter water.

CHEMICAL AND PHYSICAL HAZARDS: Do not use or store near heat or open flame.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by

storage or disposal. Pesticide paint or rinsate that cannot be used according to label directions must be disposed in accordance with provincial requirements. For information on the disposal of unused or unwanted product and the clean up of spills, contact the Provincial Regulatory Agency or the manufacturer.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions. All local, provincial, and Canadian regulations must be observed when using or disposing of this product. AWLGRIP AWLSTAR Gold Label Anti-fouling are particularly designed for application to underwater areas subject to foulings are particularly designed for application to underwater areas subject to fouling by barnacles, algae, lube worms and other fouling organisms.

Large vessels, ie over 25 mm, must be treated by trained applicators. Read Technical Product Data Bulletin for complete application and cure information before using this product.

FOR CHEMICAL EMERGENCY CALL CHEMTREC: 1-202-483-7616

Technical Product Data Bulletin

AWLGRIP (R) TM AWLSTAR (TM)

Gold Label Anti-Fouling

REGISTRATION NO. 21409
PEST CONTROL PRODUCTS ACT

BP501 LIGHT BLUE

DANGER POISON

COMMERCIAL

READ THE LABEL BEFORE USING

SECTION 1 - FEATURES AND USES

- . Five bright colours and White Lightning.
- . Tin-free ablative co-polymer.
- . Ideal for use where serious fouling conditions are encountered.
Recommended for use where extended drylocking intervals are required.

- . Multi-season performance.
- . Shelf stable formula.
- . Easily wet sands for "racing bottoms".
- . Unique cleaning mechanism prevents permanent attachment of slime and all other types of fouling organisms.

IMPORTANT

AWLSTAR(TM) GOLD LABEL is designed to be used in conjunction with a U.S. Paint HULL-GARD(R) Primer as a complete AYLSTAR(TM) Bottom System. Failure to use a HULL-GARD(R) Primer can seriously affect the adhesion and performance of the AYLSTAR(TM) anti-foulings. Once a hull has been properly prepared and coated with this AYLSTAR (TM) Bottom System (HULL-GARD(R) + AYLSTAR(TM) GOLD LABEL) all the boat owner has to do to maintain it is periodically haul the boat and renew just the AYLSTAR(TM) GOLD LABEL that has ablated away.

Longevity depends on how much AYLSTAR (TM) GOLD LABEL is applied, how the boat is operated and the water temperature.

AWLSTAR (TM) Gold Label ablative formulation slowly polishes away as the vessel moves through the water continually exposing a clean surface. The ablation (wearing away) sheds loosely attached fouling and exposes a fresh active anti-foulant surface to the elements. Thus performance is directly tied to the amount of material applied.

Twelve dry mils of AYLSTAR (TM) GOLD LABEL will ablate at 4 mils per year on a vessel travelling at a constant 15 knots in water that is 25'C. Faster speeds and higher water temperatures will increase the ablation rate. Twelve dry mils of AYLSTAR (TM) GOLD LABEL should give 24 months of anti-fouling protection under those conditions. Faster vessels in warmer tropical waters could expect 18 months service between haulings.

HOW MUCH AYLSTAR (TM) DO I NEED FOR MY BOAT?

To establish a multi-season system you need 3.785 L of AYLSTAR (TM) GOLD LABEL for every 6.04 Sq. M of below waterline hull surface. For single season performance or short sailing season, a minimum recommendation is 3.785 l for every 12.08 Sq. M. HULL-GARD (R) Primer requirements are given in the systems recommendations.

A reasonable estimate of the below waterline area of the hull can be made with the following formula: length of the hull x beam x .75 A 12.2 M with a 2.7 M beam would have approximately 25.0 M of below waterline area: $12.2 \times 2.7 \times .75 = 24.7$

SPECIAL NOTES ABOUT WHITE LIGHTNING BP802

White Lightning BP802 is based on the same technology as the other AYLSTAR(TM) GOLD LABEL colours. However the brilliant

white colour limits the amount of cuprous oxide in the BP802 formula. Thus the anti-fouling capability of White Lightning is slightly less than other AWLSTAR (TM) GOLD LABEL colours. As a result maintaining White Lightning's brilliant white appearance will require a little extra attention. The most noticeable difference will be in static performance. The waterline area will require regular attention to avoid algae and scum build ups. Exact maintenance requirements will vary with the environment, boat speed and how much the boat is used. In general low use and/or slower boats moored in warm water will require the most attention.

To compensate for these factors we recommend applying 2 to 3 extra coats of BP802 to the waterline area of the boat. The extra costs will allow the waterline to perform at the same rate as the rest of the hull.

Cleaning agents and other chemicals which have no noticeable affect on other colours of AWLSTAR (TM) GOLD LABEL may stain or discolour White Lightning. Usually these stains are right at the surface. The same light scrubbing schedule which keeps the waterline free of algae will take care of these chemical stains as well.

White Lightning completely out of the water for extended periods, may oxidize to a blue/green colour. Usually a light sanding with 220 to 280 grit paper will remove the oxidation and restore the white colour.

SPECIAL NOTES TO RACING SAILORS REGARDING ALL COLOURS

AWLSTAR (TM) GOLD LABEL is an ablative product. It is designed to wear away as the boat moves through the water. Ablative coatings cannot be "hard". If they were hard they would not ablate and would not function.

AWLSTAR (TM) GOLD LABEL can provide a sound racing bottom, minimizing resistance to maximize hull speed. AWLSTAR (TM) GOLD LABEL can be easily wet sanded or burnished to a smooth, slick finish. Plus the more you use the boat the smoother the finish becomes.

Resist the temptation to over-reduce to obtain a smoother application. Long term performance is directly related to applied film thickness. You are much better off applying a little extra material then sanding to obtain a smoother finish.

Remember AWLSTAR (TM) GOLD LABEL can be hauled and re-launched as often as you like without losing its effectiveness as an anti-fouling.

SECTION 2 - SPECIFICATION DATA

PHYSICAL DATA

On a 25-1 pump, pressure gauge should read 70 to 80 pounds. On a 40-1 pump, pressure gauge should read 50 to 60 pounds.

AIR ATOMIZED EQUIPMENT: PRESSURE POT ONLY*

BINKS

Spray gun #62 or #95; fluid nozzle #68 (.110" orifice size); fluid needle #368; air nozzle #68PB. Pressure pot gauge should read 15 to 25 lbs.; atomization pressure should be 50 to 70 lbs.

* High viscosity primers and anti-fouling paints cannot be sprayed with a siphon or cup gun without excessive reduction. Excessive reduction limits the film build characteristics of these materials.

BINKS MACH 1 HVLP SYSTEM

Fluid nozzle 906 (.100" Orifice Dia.) 909 (.111" Orifice Dia.); fluid needle 54-3941 or 54-3940; air nozzles 905P or 907P.

BRUSH AND ROLLERS

Always obtain first quality equipment. Natural bristle brushes are preferred. If you use a synthetic bristle brush, make sure it is for use with polyurethane and epoxy materials. Only use rollers designed for use with polyurethane or epoxies. Standard rollers will disintegrate.

SECTION 5 - SURFACE PREPARATION

NEW APPLICATIONS

AWLSTAR (TM) GOLD LABEL is designed to be applied over a HULL-GARD (R) Primer. The first coat of AWLSTAR (TM) GOLD LABEL must be applied when the last coat of HULL-GARD (R) Primer has dried to a barely tack-free state, but not cured hard.

At 25'C this occurs approximately two hours after application with HULL-GARD E.R.; HULL-GARD W.B. requires approximately four hours to reach the same point of cure. Details of complete application systems are in Section 7.

AWLSTAR (TM) GOLD LABEL must not be used on aluminum.

RENEWING AWLSTAR (TM) ANTI-FOULING

AWLSTAR (TM) GOLD LABEL that is wearing thin can be easily renewed. Wash down the hull, using a high pressure clean water wash, as soon as possible after hauling. Washing the hull while it is still wet allows removal of salt and other contaminants while they are in solution. These contaminants are much more difficult to remove if allowed to dry and cake on the hull. The surface can be lightly scrubbed with a brush if necessary to

remove all traces of slime or other contamination. The surfaces must be clean, dry, and free of all oil, grease, salt, dirt corrosion or other surface contamination.

SANDING

In most cases, no sanding is required when re-coating AWLSTAR (TM) GOLD LABEL with itself. A thorough sanding with 80 grit paper is advised under the following conditions:

If the hull was not power washed while it was still wet from hauling. Anytime the cleanliness of the surface is in doubt.

Faster, high use boats where the AWLSTAR (TM) GOLD LABEL has ablated to a very slick surface. Sailboats recently burnished.

PAINTING OVER OTHER ANTI-FOULINGS

Many boat owners want to apply AWLSTAR (TM) GOLD LABEL over their existing anti-foulings for economic reasons. When the type and brand of the previous bottom system is unknown the safest and wisest option is to remove the old material and apply an AWLSTAR (TM) GOLD LABEL Bottom System.

Although AWLSTAR (TM) GOLD LABEL will work over some existing anti-foulings, U.S. Paint cannot endorse this practice. We have no control over other anti-fouling manufacturers quality control or formulation.

AWLSTAR (TM) GOLD LABEL definitely will not perform over any of the tin-copolymer/organotin anti-foulings or soft conventional types.

AWLSTAR (TM) GOLD LABEL will perform adequately over hard conventional type anti-foulings and tin free ablative copolymer anti-foulings that contain copper. The most common problem encountered with these applications is mudcracking. A test application should be made before recoating an entire hull unless all other anti-foulant is removed. DO NOT apply primers over old anti-fouling paints. If test application indicates a compatible situation, sand the surface with 80 grit then apply 3 coats of AWLSTAR (TM) GOLD LABEL.

SECTION 6 - MIXING AND REDUCERS

MIXING INSTRUCTIONS

AWLSTAR (TM) GOLD LABEL should be checked for setting then thoroughly mixed until a consistent homogenous blend is obtained. Power mixers or shakers are preferred. If not available thorough hand mixing is acceptable.

Reduction is not normally recommended. However if needed for conventional air atomized spray equipment or brush/roller

application reduce no more than 12 oz. per gallon (10%) with T0101. DO NOT OVER REDUCE!

SECTION 7 - APPLICATION INSTRUCTIONS

AWLSTAR (TM) GOLD LABEL can be applied by airless spray brush rollers or air atomized spray.

For maximum anti-fouling performance and protection apply a minimum of 3 coats of AYLSTAR (TM) GOLD LABEL at a wet film thickness of 9 mils (225 microns) per coat to achieve 4 mils (100 microns) dry per coat. Allow a minimum of 4 hours at 25'C, 50% RH between coats. Optimum performance is achieved at a total dry film thickness of 12 mils (300 microns). 3.785 L of AYLSTAR(TM) GOLD LABEL is required for each 6.04 Sq. M of below the waterline hull area to achieve 12 mils (300 microns) DFT.

To provide a built-in indicator of when it is time to renew your AYLSTAR (TM) GOLD LABEL, apply the first coat in a different colour from the remaining coats. When you can see the first colour showing thorough it is time to renew.

Extra protection and more uniform wear properties result when 1 or 2 extra coats of AYLSTAR (TM) GOLD LABEL are applied to high wear areas such as the bow, rudder, leading edge of the keel stabilizers, cavitation plates, propeller cavitation areas and trim tabs.

Allow a minimum of 5 hours at 25'C 50% RH after the application of the last coat of AYLSTAR (TM) GOLD LABEL before launching. Allowing 12-24 hours before launching is preferred.

Cooler temperatures will require longer cure times between coats and before launching. DO NOT apply or attempt to cure AYLSTAR (TM) GOLD LABEL OR HULL-GARD (R) products at temperatures below 10°C. Thick films of these products will cure slowly below 15.6°C.

AYLSTAR (TM) GOLD LABEL must not be used on aluminum.

SURFACE PREPARATION

FIBREGLASS/GELCOAT

1. The surface must be clean and free of any waxes or mold release compound before beginning any other work.

NEW FIBREGLASS/GELCOAT

To remove mold releases use a commercial detergent or a powder household cleanser. Scrub with a sponge, soft brush or SCOTCH-BRITE pad as necessary. Rinse surface thoroughly to remove all soap residue. Repeat process until rinse water "sheets out" over the entire surface with no breaks or holes in the water

film. Allow to dry.

OLD SOUND BARE FIBREGLASS/GELCOAT WITH NO DAMAGE, CRACKS, HEAVY CRAZING * OR BLISTERING

The surface must be clean; free of any dirt, grease, grime, wax, or other foreign material. Hand wash with commercial detergents, steam cleaners, or pressure washers. Be sure all detergent residue is rinsed from the surface. Repeat process until rinse water "sheets out" over the entire surface with no breaks or holes in the water film. Allow to dry.

2. Wipe surface with AWL-PREP (R) PLUS (TM) (T0115) using the Two Cloth Method. Change cloths frequently. Allow to dry.
3. Lightly machine sand the surface with 100 to 150 grit paper. Sand just enough to remove the gloss from the surface. DO NOT sand excessively. This will create porosity in the surface that will have to be filled.
4. Blow off the surface with clean dry compressed air while dry wiping to remove sanding dust and residue. Then wipe with AWL-PREP (R) or AWL-PREP (R) PLUS (TM) (T0115) using the Two Cloth Method.

* Below waterline gelcoat with very minor surface crazing and no other cracking, blistering, or impact damage is a sound surface. Surfaces with crazing penetrating deep into or through the gelcoat are heavily crazed. These surfaces must be repaired before applying an AWLSTAR (TM) ANTI-FOULING BOTTOM SYSTEM.

STEEL

Thoroughly clean and degrease the surface. Use commercial detergents, steam cleaners or pressure washers. Be sure all detergent residue is rinsed from the surface. Use AWL-PREP (R) or AWL-PREP (R) PLUS (TM) for a final wipe down of the surface.

Commercial sand blast to clean steel in accordance with SSPC-SP6-63 to a 3 to 4 mil (75 to 100 microns) profile or power grind with a 16 to 24 disc to obtain profile. If profile is particularly jagged, grind to remove "spikes," providing a more uniform surface.

Thoroughly remove all grinding dust, or blasting residue with clean, dry compressed air.

Immediately prime the surface with AWLGRIP (R) 545 or HULL-GARD (R) E.R. depending upon the system chosen. The cleaned surface must not be allowed to "turn" or re-rust before priming. Do not use a roller to apply first coat of primer.

WOOD

The wood must be clean, dry and well seasoned. Never paint wet or green lumber. Painted wet or green lumber will blister. Sand the surface smooth with 80 to 120 grit paper. Blow off sanding dust and residue with clean, dry compressed air. Solvent wipe with AWL-PREP (R) or AWL-PREP (R) PLUS (TM) using the Two Cloth Method. Allow surface to dry.

Fill seams with a high quality marine seam sealer such as polyurethane or polysulfide. Follow the manufacturer's recommendations for application and cure of the seam sealer.

MAXIMUM WATER BARRIER SYSTEM

1. Immediately prime with AWLGRIP (R) 545 PRIMER to cover substrate surface profile. This will require 2 to 3 coats. Apply 3.78 L mixed litre (combined base and converter) for every 16.7 Sq. M of below the waterline hull area. Allow one hour minimum between coats at 25'C, 50% RH. Allow to cure 12 to 14 hours.

If more than 24 hours elapse before proceeding to the next step, the AWLGRIP (R) 545 PRIMER must be sanded with 150 grit sand paper before applying additional material.

2. Apply a smooth, even coat of HULL-GARD (R) E.R. Apply at 8 to 9 mils (200 to 225 microns) wet film to yield 4 mils (100 microns) dry film. Allow to cure to tack free, minimum 2 hours at 25'C, 50% RH.

A 3.785 litre kit of HULL-GARD (R) E.R. is required for every 16.7 Sq. M of below waterline hull area to achieve 4 mils (100 microns) DFT.

3. Within 24 hours of completion of the HULL-GARD (R) E.R application, apply the first coat HULL-GARD (R) W.B. Two to 4 coats may be required depending upon reduction and method of application. A total DFT of 16 mils (400 microns) is required. Every 3 mils (75 microns) of WFT will yield 2 mils (50 microns) DFT. Allow a minimum of 4 hours between coats at 25'C, 50% RH. Use of a wet film thickness gauge to determine applied film thickness is recommended. A 3.785 L kit of HULL-GARD (R) W.B. is required for every 6.03 Sq. M of below waterline hull area to achieve 16 mils (400 microns) DFT.

4. Apply AWLSTAR (TM) GOLD LABEL as soon as last coat of HULL-GARD (R) W.B. is barely tack free (i.e., approximately 4 hours) but still soft enough to allow indentation with a fingernail. If the HULL-GARD (R) W.B. has been allowed to cure beyond this point, renew the surface with a light coat of HULL-GARD (R) E.R. and then apply the first coat of AWLSTAR (TM) ANTI-FOULING.

STANDARD FAST RECOAT SYSTEM

1. Apply multiple coats of HULL-GARD (R) E.R to achieve 12 mils (300 microns) DFT. Twelve mils of DFT requires one kit of HULL-GARD (R) E.R. for each 5.6 Sq. M of below the waterline hull area. If applied by airless spray, 3 to 4 coats will be required. The additional reduction required for air atomized or roller application may require 1 to 2 additional coats to achieve 12 mils (300 microns) DFT. Allow 2 hours between coats at 25'C, 50% RH. HULL-GARD (R) E.R.'s extended recoat capability allows recoating with itself at any time up to 8 weeks without requiring sanding.

The aged HULL-GARD (R) E.R. must be thoroughly cleaned and free of all foreign material before recoating with additional HULL-GARD (R) E.R.

2. Apply AWLSTAR (TM) GOLD LABEL as soon as last coat of HULL-GARD (R) E.R is barely tack free, about 2 hours at 25'C, 50% RH. If the HULL-GARD (R) E.R. has been allowed to cure beyond this point, renew the surface with a light coat of HULL-GARD (R) E.R. and then apply the first coat of AWLSTAR (TM) GOLD LABEL.

ECONOMY WATER BARRIER SYSTEM

This system will quickly provide the hull with 12 mils (300 microns) DFT of HULL-GARD (R) epoxy protection while providing an excellent adhesion base for the AWLSTAR (TM) GOLD LABEL. This system is tailored for areas with short sailing seasons. The ECONOMY SYSTEM will protect the hull from moisture intrusion while providing adequate anti-fouling protection.

1. Apply a smooth, even coat of HULL-GARD (R) E.R. Apply at 8 to 9 mils (200 to 225 microns) WFT to yield 4 mils (100 microns) DFT. Allow to cure to tack free for a minimum of 2 hours at 25'C, 50% RH. A 3.785 L kit of HULL-GARD E.R. is required for every 6.7 Sq. M of below the waterline hull area to achieve 4 mils (100 microns) DFT.
2. Within 24 hours of tile completion of application of HULL-GARD (R) E.R., apply the first coat of HULL-GARD (R) W.B. Two coats may be required depending upon reduction and the method of application.

A total DFT of 8 mils (200 microns) Is required. Allow a minimum of 4 hours between coats at 25'C, 50% RH. Use of a wet film thickness gauge to determine applied film thickness is recommended. A 3.785 L kit of HULL-GARD(R) W.B. is required for every 12.07 Sq. M of below the waterline hull area to achieve 8 mils (200 microns) DFT.

3. Apply AWLSTAR (TM) GOLD LABEL as soon as last coat of HULL-GARD (R) W.B. is barely tack free (i.e., approximately 4 hours), but still soft enough to allow indentation with a fingernail. Apply AWLSTAR (TM) GOLD LABEL to a minimum of

6 mils (150 microns) DFT. Two coats will be required regardless of the application method. Applications of less than 6 mils (150 microns) DFT will ablate or wear away prematurely. 3.785 L AWLSTAR (TM) GOLD LABEL will be required for every 12.07 Sq. M of below waterline hull area to achieve 6 mils (150 microns) DFT.

SECTION 8 - WARNINGS

IMPORTANT

This product may be blended with other products prior to use. Read all warnings and precautions on the labels of all products being blended as the combination may contain the hazards of each component.

WARNING!

DO NOT incorporate into this U.S. PAINT Coating System, any thinner, additive, modifier, converter, or related product produced by any manufacturer other than U.S. Paint. Any such substitution can jeopardize the unique chemical characteristics provided by each of the U.S. PAINT Coating Systems.

FOR INDUSTRIAL USE ONLY

This product is for use by professional, trained personnel using proper equipment and is not intended for sale to or use by, the general public.

FOR PROFESSIONAL USE ONLY

Any recommendation of U.S. Paint contained herein, covering use utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, U.S. Paint makes no warranty or representation with respect thereto. Use or application of any U.S. Paints products is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Paint.

FOR CHEMICAL EMERGENCY CALL CHEMTREC 800-424-9300 OR 202-483-7616

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