

BLUE WATER MARINE PAINT

Copper Shield 45™ TECHNICAL DATA SHEET

Revision date:
December 2019



Copper Shield 45 provides antifouling protection against barnacles, algae and hydroids in salt and fresh water on boat bottoms only. Its ablative copolymer base renders a smooth finish with durability and abrasion resistance. Copper Shield 45 releases biocide by the constant exposure of new paint film to the water. Copper Shield 45 has universal application over all types of properly prepared bottom paints (except aluminum).

SUGGESTED USES: Antifouling

LIMITATIONS: Do not apply if material, substrate or ambient temperature is below 50°F or above 95°F.

COLORS: Marine Black, Royal Blue, Admiral Green, Regatta Red

FINISH: Flat

VEHICLE TYPE: Acrylic

SOLVENT TYPE: High flash naphtha

VOC: 353 grams/liter

SOLIDS BY VOLUME: 60%

WEIGHT PER GALLON: 14.9 lbs (6.758 kg)

RECOMMENDED DRY FILM THICKNESS: 3.6 mils dry film thickness (6 mils wet film thickness)

Surface Preparation: Surface must always be clean, dry and properly prepared prior to painting. Failure to do so will lead to eventually blistering and/or peeling. All sanded surfaces must be wiped clean with Dewaxer 973 to remove sanding residue.

General Application: For use on boats below the true waterline. Can be brushed or rolled on fiberglass, wood, steel and previously painted surfaces per application systems below. Do not use on aluminum hulls. Apply at least 2 coats for best performance, as the life of the paint is proportional to the number of coats applied.

Do not apply this product in a way that will contact adults, children or pets either directly or through drift.

Spray Drift Management: A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Mixing and Thinning: Shake or mix thoroughly and stir continuously while using. Thin when necessary with Reducer 974.

Theoretical Coverage: Depending on surface conditions, one gallon of bottom paint will usually cover over 400 square feet of surface when brushed or rolled.

Clean Up: Use Reducer 974 for cleaning equipment and paint brushes.

Estimated Dry Times: Bottom paints are designed for over coating after an overnight dry. Prior to launching, allow a minimum dry of overnight. If drying conditions are poor, or if paint was applied too thickly, longer periods of drying will be required. Fresh coats of paint must be thoroughly dry before over coating.

Yearly Repainting: Scrub bottom clean at haul-out. Repaint only if old paint is sound and intact; if not, remove it by sanding or with paint remover. If old paint is rough, sand it with 100-150 grit sandpaper. Prepare seams, nicks and chips as below. Spot coat any bare areas with Copper Shield 45 antifouling. Apply 2 full coats of Copper Shield 45 antifoulant.



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On Bare Wood: If seams are not flush, fill them with seam compound. Dry several days until skin forms. Do not sand. Fill nicks with trowel cement, dry hard, sand, apply Copper Shield 45 antifouling paint reduced 10% with Blue Water Thinner 974, then follow with 2 additional unreduced coats of Copper Shield 45.

On Bare Fiberglass: Dewax by washing with Dewaxer 973, remove dissolved wax at once with clean paper towels or rags; repeat; sand hard to a dull finish with 80-100 grit sandpaper. Fill any chips with trowel cement, dry hard, sand. Apply 3-5 coats of 8000A / 8000B Bottom Protect High Build Epoxy Primer, then apply 2 coats of Copper Shield 45 antifouling paint.

On Bare Steel: Sandblast surface to a near white metal; remove blast residue with a broom and air hose. Wipe off with Dewaxer 973. Apply one or two coats of Blue Water Marine Strontium Chromate Epoxy Primer. Do not sand. Fill as required with Uraglow Lightweight Epoxy Fairing Compound. Sand smooth and wipe clean. Apply 3-5 coats of 8000A / 8000B Blue Water Bottom Protect High Build Epoxy Primer or Uraglow Epoxy Primer then apply 2 coats of Copper Shield 45 antifouling paint.