

SLIPS® Dolphin™

PRODUCT DATA SHEET and APPLICATION GUIDE

PRODUCT DESCRIPTION

SLIPS® Dolphin™ is a revolutionary lubricious silicone foul-release coating for the control of marine biofouling organisms.

Compared to conventional marine paints, SLIPS® Dolphin™ provides a non-toxic solution by using lubricant and other mechanisms to create a surface that marine organisms, such as algae and barnacles, have difficulty adhering to.

INTENDED USES

For use on commercial and recreational oceangoing ship hulls. May also be used on structures exposed to marine fouling.

PRODUCT INFORMATION

Color	White
Finish / Sheen	Glossy/Wet
Volume Solids	>95%
Mix Ratio	4 to 1 mix ratio (1 gal Part A to 1 quart Part B)
Typical Wet Film Thickness (WFT)	Tack Coat: 1-2 mils (25-50 µm) Flow Coat: 5-6 mils (125-150 µm) Total: 6-8 mils (150-200 µm)
Method of Application	Roller / Spray / Brush
Solvent for Rolling	Xylenes (if desired; no dilution is necessary for roller application.)
Solvent for Spraying	Xylenes (if desired; no dilution is necessary for spray application.)
Solvent for Clean Up	Xylenes
Theoretical Coverage	160-200 sq. ft. / gallon

DRYING:

<u>Temperature (at 50% RH)</u>	<u>50°F (10°C)</u>	<u>77°F (25°C)</u>	<u>95°F (35°C)</u>
Working Time / Pot Life	2.5 – 3 hr	1.5 - 2 hr	0.5 - 1 hr
Touch Dry	3.5 hr	2 hr	1 hr
Dry to Launch	Full 24 hr	Full 24 hr	Full 24 hr

APPLICATION SYSTEM:

- Remove all previous antifouling paint and primers prior to the application of SLIPS® Dolphin™.
 - Ensures proper adhesion of the SLIPS® coating system.
 - Provides a smoother hull that will optimize the speed and fuel savings.
- Choose an appropriate primer for the hull material and apply based on the manufacturer's recommendations to seal the hull. For steel or fiberglass hulls, we recommend Interlux Interprotect 2000E or Intershield 300HS primer (or equivalent product). Two coats can be applied in 1 day.
- Apply one coat of **SLIPS® Tie-Coat** at a thickness of 6-7 mils (150-175 µm). Additional information is available on SLIPS® Tie-Coat Technical Data Sheet.

Over-coating Window: It is important to apply the SLIPS® Dolphin™ directly over the SLIPS® Tie-Coat within the Over-coating Window. This will eliminate the need to sand the Tie-Coat before rolling on the SLIPS® Dolphin™ and will save the applicator a significant amount of time and effort.

Drying Temperature	<u>50°F (10°C)</u>	<u>77°F (25°C)</u>	<u>95°F (35°C)</u>
Over-coating Window:	6 Hrs.–7 Days	4 Hrs.–7 Days	3 Hrs.–7 Days

- Apply **SLIPS® Dolphin™** in the following ways:

Mixing

SLIPS® Dolphin™ is supplied in two containers, Part A (Base) and Part B (Curing Mixture). The mixing ratio is 4 parts of Part A to 1 part of Part B. The Pot Life is between 1 and 3 hours, depending on the temperature and humidity (see table above).

Roller

When applying SLIPS® Dolphin™ by roller, use a good quality, solvent resistant roller cover, such as a Redtree Industries 3/16" Deluxe Mohair, or equivalent, for best results.

After mixing, roll on a thin “**tack coat**” of SLIPS® Dolphin™, 1-2 mils (25-50 µm). Allow the tack coat to dry for a maximum of 30 minutes. When dry, apply a full “**flow coat**” of SLIPS® Dolphin™, 5-6 mils (125-150 µm), in one full coating. Apply additional paint “wet on wet” if necessary, until appropriate wet film thickness is achieved. The two coats should be 6-8 mils (150-200 µm) in total.

Spray

Use an airless spray gun with a 517 tip and set pressure to 3000 PSI. Spray from approximately one foot away, moving at a steady speed of about 1 foot per second to achieve desired thickness of 6-8 mils (150-200 µm). If thinning is required, use 5-10% (v/v) of Xylenes.

Brush

A good quality, solvent resistant, 4-inch paint brush can be used for small areas, such as bare areas that supported jack stands. A brush can also be used to repairing SLIPS® Dolphin™, as needed.

- By following the procedure above, the primer can be applied on one day and the Tie-Coat and Dolphin™ can be applied the next day. This will reduce the total time to paint the hull.
- Lifting safety requirements and additional application information, such as painting the areas under jack stands, can be found in the sections below.

Patch and Repair Instructions

To repair damaged areas of SLIPS® Dolphin™, sand with medium grit sandpaper (approx. 160 grit) to reveal some texture. Wipe with isopropyl alcohol or another solvent and apply SLIPS® Dolphin™ over the sanded area. NOTE: Do not attempt to adhere fresh SLIPS® Dolphin™ directly to previously applied and cured Dolphin™ without sanding, as it will not adhere well and may detach. For damage that may go deeper than the top coat, scrape the area back to the epoxy primer, wipe clean with solvent, and apply tie-coat and top coat as mentioned above in this document.

BOATYARD SAFETY INFORMATION

APPLYING SLIPS® Dolphin™ UNDER JACK STANDS OR KEEL BLOCKS

BECAUSE THE SLIPS® COATING IS SO SLIPPERY, THE JACK STANDS HOLDING UP THE BOAT MUST ALWAYS BE CHAINED TOGETHER (i.e. the port and starboard jack stands must be connected with a chain as the manufacturer recommends). This holds true for both bow and stern jack stands.

Once the SLIPS® Dolphin™ is dry, it is best to install a separate set of jack stands to hold up the hull. It is recommended to apply a barrier, such as layers of thick plastic bags or liners, to the additional set of jack stands to prevent damage to the newly cured application of SLIPS®

Dolphin™. Once the new set of jack stands are in place and chained together the old jack stands can be removed.

Mix and apply the SLIPS® Dolphin™ system to this unpainted jack stand areas. This should be done using the same procedure as the rest of the bottom application.

LIFTING INSTRUCTIONS FOR BOATS PAINTED WITH SLIPS® Dolphin™

Silicone based foul release coatings are so slippery that boats painted with them have the potential of slipping out of the front travel lift sling straps when being lifted. This can be avoided by tying a dock line from the port bow sling to the port aft sling, thereby preventing them from separating. The same safety dock line should be attached to the starboard bow and stern sling straps.

It is also important to prevent the travel lift straps from damaging the SLIPS® Dolphin™ paint film during lifts, as the straps can stretch. This can be avoided by temporarily attaching a couple layers of thick plastic bags or Visqueen plastic sheeting to the lift straps. A product called Sling-Shield Blue Kote, or equivalent, can also be used.

REGULATORY DATA

VOC <100 g / liter as supplied

Note: VOC values are typical and are provided for guidance purposes only. These may be subject to variation depending on normal manufacturing tolerances.

Proposition 65 warning: This product contains chemicals known to the state of California to cause cancer and birth defects or other respiratory harm.

This product does not contain organotin compounds acting as biocides and as such is in compliance with the International Convention on the Control of Harmful Anti-fouling Systems on ships as adopted by IMO in October 2001 (IMO document AFS/CONF/26). The product is exempted from EPA registration as it does not contain biocides.

Shelf Life: Unopened cans have a shelf life of 12+ months if stored according to the recommended storage conditions. Although not recommended, opened / partially used cans may also be stored under the same conditions.

Recommended Storage Conditions: Store cans, tightly closed, in dry, shaded conditions away from sources of heat and ignition.

Disposal: Used or wasted material should be disposed of according to all local, regional, and national regulations. Any uncured paint that spreads on bench tops and counters during application can be removed using wipes or towels wetted with common solvents mentioned above, and those materials must be disposed of according to all local, regional, and national regulations.

Safety

All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations.

Prior to use - obtain, consult, and follow the Safety Data Sheet(s) concerning health and safety information for this product, located at <http://slipsfoulprotect.com/technical-documentation>. Read and follow all precautionary notices on the Safety Data Sheet and container labels. If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use this product. Proper ventilation and protective measures must be provided during application. Take precautions to avoid skin and eye contact (e.g. gloves, goggles). Actual safety measures are dependent on application methods and work environment.

EMERGENCY CONTACT

In case of emergency, call 911 or the poison control center in the case of accidental ingestion.

For 24/7 Emergency Response call INFOTRAC at 1-800-535-5053 (inside US) or 1-352-323-3500 (outside US).

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