



ESGARD

ESGARD BIO FLOAT

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| DESCRIPTION | BIO FLOAT is a non-hazardous, rust preventative coating for use in all types of marine vessels. It contains no petroleum oils or solvents yet cures through oxidation to a tacky film which resists wash out and which will not cause pollution concerns. The coating contains active corrosion inhibitors and bactericides. Do not use with potable water. |
| FIELD OF APPLICATION | Ballast tanks, void areas, cofferdams, pre-load tanks, anchor chains, chain lockers, etc. |

TECHNICAL DATA

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| FILM PROPERTIES | Transparent, amber liquid which cures through oxidation to a clear, tacky film. |
| TYPE | Rust preventative vegetable oil. |
| DENSITY | 8.0 lb/gal (.096 kg/l) |
| VOLUME SOLIDS | 100% |
| FLASH POINT | 440°F (226°C) COC |
| COVERAGE (theoretical) | 400 ft ² /gal at 4 mils 9.8 m ² /l at 100 microns |
| DRY TIME | Surface tack 1 - 3 days depending on temperature |
| TEMPERATURE RANGE | Up to 400°F (204°C) |

PRODUCT AMOUNT **SPRAY APPLICATION:** To determine the amount of BIO FLOAT required, calculate the surface to be coated (bulkheads, overheads and decks). Add to this figure allowances of up to 500% for internal structures. For new steel, divide this figure by 400 square feet per gallon at 4 mils (9.8 square meters per liter at 100 microns) to obtain gallons (liters) required. For older, corroded surfaces, coverage should be reduced to 250 square feet per gallon at 4 mils (6.1 square meters per liter at 100 microns).

FLOAT APPLICATION: To coat a tank using the floatation method, enough BIO FLOAT must be added to the tank to cover the steel surfaces (determine just as if spray applying) and allow for a 3/8" floating layer of coating on the largest horizontal water surface. A good rule of thumb for the amount of product required for the floating layer is 20 gallons per 100 square feet (80 liters per 10 square meters) of water surface area. Add the two figures together to determine the total amount of coating required.

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www.esgard.com



ESGARD

**SURFACE
PRERARATION**

Remove loose rust, dirt, and scale via the most economical method, ie. (hand) scraping high pressure water hose or water blasting). Muck out tanks. BIO FLOAT can be applied over rusty, scaly surfaces but will promote descaling of surfaces not properly prepared. The better the surface preparation, the more effective the coating.

APPLICATION

BIO FLOAT can be applied over marginally prepared surfaces via spray or float methods. The steel surfaces should be as dry as possible. APPLY AS SUPPLIED. DO NOT THIN OR DILUTE. If the coating is cold and viscous (thick), heating can be used to reduce viscosity. Use approved practices such as heater bands or hot rooms.

SPRAY APPLICATION: For spray application, use airless equipment with a minimum 22:1 ratio and capable of at least 3 gpm (11 liter) continuous delivery output capacity. A 3.8 inch or larger material hose wit a 1/4 inch whip and swivel is also recommended. The spray gun should be equipped with a .027 – .031 tip providing a good spray pattern and no unnecessary misting. BIO FLOAT should be applied to a wet film thickness of 4 mils (100) microns on new steel. On rusted surfaces, enough product must be applied to coat the irregular surfaces and penetrate scale.

FLOAT APPLICATION: For best results, spray the overheads and tank bottoms. Then, pour the required amount of product into the tank. At a rate of no more than 2 inches per minute, fill the tank with water. It is important to not create turbulence which will break up the floating layer. Allow the product to spread evenly when ballasting through lightening holes and other internal structures. Press the tank to coat the overheads if these areas were not sprayed. Discharge slowly, stopping at lightening holes to allow the product layer to reform. Do not strip the tank. Repeat the above procedure. When the process is completed, take care not to over discharge as there will be coating remaining on the water surface.

RE – APPLICATION

Areas coated with BIO FLOAT should be checked after 3 – 6 months. Bare or newly descaled surfaces should be re-coated at such time. Remember, BIO FLOAT will promote descaling. The initial amount of rust scale and surface preparation determine the amount of descaling.

**CLEAN UP AND
REMOVAL**

Clean up with mineral spirits, painter's naphtha, paint thinner, etc. Personal clean up with soap and water. Remove BIO FLOAT from clothing and equipment prior to cure.

CAUTION

FOR INDUSTRIAL USE ONLY! Although BIO FLOAT is not hazardous, good safety practices and common sense should be used. Safe application practices should include the use of respirators, eye protection, adequate lighting and ventilation. BIO FLOAT will not sustain combustion but caution should be used near flames.

SAFETY

Refer to Material Safety Data Sheet supplied with each order.

FIRST AID

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