



# ATLAS BIO-GUARD

Environmentally Safe, Water-Based, High Performance Form Release Agent for Many Types of Forms

## Description

Atlas Bio-Guard is a premium, environmentally safe, chemically reactive form release agent for use on many different types of concrete forms. Formulated with a natural emulsified organic vegetable oil, Bio-Guard is biodegradable and is ideal for use in environmentally sensitive areas, concrete precast plants, or wherever architectural concrete surfaces are required. Bio-Guard provides easy form stripping, produces concrete surfaces that are stain-free, smooth & non-dusting, and minimizes form clean-up time and maintenance costs. Bio-Guard is GreenSpec listed for LEED® projects and certified to conform to NSF/ANSI Standard 61 for potable water projects.

## Uses

- Ideal for environmentally sensitive situations, such as bridge work over rivers & lakes, potable water reservoirs, or jobsites where spillage is a concern.
- Ideal for high visual impact precast and architectural concrete.
- May be used on many types of concrete forms, such as wood, steel, aluminum, fiberglass, plastic, paper, epoxy or urethane coated molds, masonite, formliners and expanded polystyrene (styrofoam).
- Excellent performance on elastomeric & PVC formliners.
- Treat wood and steel forms to increase the useable life of form surfaces.
- Spray on equipment such as mixers, pavers, trucks, finishing machines, etc. for easy clean-up and maintenance.

## Features

- 100% natural organic chemical release agent that is environmentally safe.
- Certified to conform to NSF/ANSI Standard 61; clean, safe and cost effective release for surfaces that will have contact with potable water.
- GreenSpec listed for LEED® projects.
- 0% volatiles, non-DOT regulated; reduces risk of expensive clean-up.
- Provides an easy & clean release of concrete formwork.
- Will produce a smooth, clean and stain-free concrete surface for high visual impact precast and architectural concrete.
- Minimal clean-up of forms between pours.
- Contains a wood preservative to increase the life of wood formwork.
- Develops a rust-proofing film to safeguard steel forms.
- Helps prevent bugholes and surface dusting.
- Leaves no residue on concrete. Will not affect the adhesion of curing compounds, sealers, paints, caulking or other architectural treatments.
- Easy to work with, odorless.

## Features (Cont.)

- Does not contain diesel oil, petroleum, kerosene, waxes, silicones or carcinogenic compounds.
- Once dry, it will not wash-off if exposed to light rain.
- Non-hazardous and non-corrosive.

## Technical Data & Specifications

GreenSpec listed for LEED® projects  
 Eligible for IEQ 3.1 LEED® credit  
 Eligible for IEQ 4.2 LEED® credit  
 Eligible for MR 6 LEED® credit  
 NSF/ANSI Standard 61 Certified  
 Corps of Engineers CEGS 03300 Section 10.8  
 Navy Dock and Piers 56359  
 VOC Compliant



## Coverage

Form Type	sq. ft. / gal.	sq. M / L
Untreated Plywood 1st use, two coats Subsequent uses	500 800 - 1,000	12 19 - 24
BB Grade Plyform	1,000	24
Medium Density Plywood (MDO)	1,000 - 1,200	24 - 29
High Density Plywood (HDO)	1,000 - 1,500	24 - 37
Steel, Aluminum, Fiberglass, Plastic, Hard & Smooth Surfaces	1,500 - 2,000	37 - 49

## Application Procedures

### Preparation

Form surfaces must be clean, dry and free of any contaminants. Remove all dirt, rust, build-up and existing form oils from forms. Very small amounts of debris that are left on the form surface may show on final concrete surface. For new wooden forms, pretreat the form with Bio-Guard until complete saturation has been reached prior to first use. Clean all application equipment thoroughly prior to use.

### Application

Bio-Guard must be agitated prior to application. This form coating may be applied using a power sprayer, manual sprayer, such as the Atlas Tech Sprayer, or hand-applied with a clean cloth. If applying with a sprayer, Atlas recommends using a fog-spray tip to help avoid over-application. Sprayer pressure should be 25 psi (0.2 MPa) or higher. Follow the coverage rates in the above chart to obtain a very thin film on the form surface. Do not leave any puddles or build-up on forms. Wipe down all excess release agent with a clean cloth.

# Atlas Bio-Guard

Bio-Guard may be applied to forms immediately prior to pouring concrete or up to two weeks prior if forms are protected from dust, debris, abrasion and harsh weather conditions.

## For minimal to no bugholes:

To obtain a consistent concrete surface with no bugholes and no dusting, use non-porous forms and apply the minimum amount of Bio-Guard according to the coverage rate chart above. Form surfaces must be extremely clean prior to application of release agent. Wipe on a very thin coating of Bio-Guard to the form surface using a clean, soft cloth that is damp, not wet, with release agent. Leave a uniform film on the form, avoiding puddles and streaks of release agent. Protect form surfaces from dust, debris and abrasion before pouring concrete.

For formliner applications, spray a thin coat of release agent on the formliner and wipe-down with a clean, soft cloth to remove all puddles and streaks. Avoid over-application.

Better concrete surfaces and easier removal of forms will be accomplished with a thin film of the release agent.

## Atlas Fog Spray Tip

This fog spray tip is specifically designed to maximize coverage rates of form release agents and avoid over-application to minimize the occurrence of bugholes. This valuable spray tip increases coverage rates up to 400% over standard fan-type spray tips. Each fog spray tip is constructed of solid brass and contains a fine mesh screen to filter-out debris that may be left in the spray can.

## Cleaning

Sprayers and other equipment may be cleaned with water.

## Painting / Coating

Once forms are stripped from concrete, Bio-Guard leaves no residue on the concrete surface. Surface will be ready to accept curing compounds, sealers, paints, etc. Prior to application of subsequent treatments or coatings, always follow the instructions from the manufacturer of those materials.

## Packaging

5 gallon (18.9 L) pails  
55 gallon (208.2 L) drums  
275 gallon (1,040.9 L) totes

## Storage

Store Bio-Guard in tightly sealed original factory containers in a cool and dry area. Protect from freezing. Store above 40° F (4° C).

## Limitations

- Do not thin or dilute Bio-Guard. Dilution will lead to increased difficulty in removing forms, excessive concrete build-up and an increased chance of staining concrete surface.
- Protect material from freezing.

## Caution

Close container after each use. It is recommended to wear protective goggles and gloves when using this product. Do not take internally. If swallowed, do not induce vomiting. Contact a physician immediately. If eye contact occurs, flush eyes with fresh water for 15 minutes. Wash all exposed skin with soap and water after use.

Keep out of the reach of children.

Additional precautions and safety information are contained in the Material Safety Data Sheet.

## Technical Services

For assistance, contact an Atlas Tech representative at:  
858-277-2100 or 1-877-588-2100  
Fax: 858-277-0585  
Email: [info@atlastechproducts.com](mailto:info@atlastechproducts.com)  
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Made in USA.

For professional use only.

Consult Material Safety Data Sheet for more information.

Disclaimer of Warranties: Neither manufacturer nor seller have any knowledge or control concerning the purchaser's use of the product. No expressed warranty is made by manufacturer or seller with respect to the results of any use of the product or container that the product comes in. No implied warranties including, but not limited to, an implied warranty of fitness for a particular purpose are made with respect to the product. Neither manufacturer nor seller assume any liability for personal injury, loss or damage resulting from the use of the product. In the event that the product shall prove defective, buyer's exclusive remedy shall be as follows: Seller or manufacturer shall, upon request of buyer, replace any quantity of the product which is proven to be defective or shall, at its option, refund the purchase price of the product upon return of the product. Manufacturer shall not be responsible for use of this product in a manner to infringe on any patent held by others.



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