

BIG GREEN MEN

“A Green Approach to Surface Cleaning & Restoration”™

BIG GREEN MEN. is a service company specializing in cleaning, striping and restoration of a large array of surfaces for the Building, Commercial, Automotive, Marine, and Aviation Industry. We offer two advanced low pressure cleaning systems, each with its unique features and applications, which offer the finest quality end product.

Introducing the patented –*BIG GREEN MEN WET BLASTING System.* This is the next technology in cleaning and coating removal for the 21st century.

It is the most advanced, safe, and environmentally friendly coating removal and surface cleaning system on the market today:

Operating at a low range of 40 to 70 psi blast pressure, heated water and exclusive media particulate combine in a slurry spray mixture capable of cleaning and removing a vast array of coatings including; paint, varnish, biological growth, dry chewing gum, graffiti, grime, rust and scale from surfaces such as; fiberglass, aluminum, steel, brass, bronze, wood, masonry, concrete, marble, stone, brick, and granite.

Low Pressure

With a blasting pressure of only 40 – 70 psi, we avoid 95% of air born particles produced by conventional sand blasters and the water mess produced by high water pressure cleaners. *The BIG GREEN MEN System* uses a mixture of water and Volcanic media in a slurry based system, which eliminates 95% of all air born particles from the blast operation.

No Dust Means No Tenting

With limited concern of air particulates there is no longer any need for tenting projects. A simple tarp under the item to be cleaned is all that is required to catch the material falling off. The BIG GREEN MEN

System uses less than 2 quarts of water per minute so most of the water evaporates before clean up. There is minimal concern for run off. Compare that to the mess and liability caused by standard pressure cleaning.

Environmentally Safe Media

The BIG GREEN MEN WET BLASTING System incorporates a volcanic crystal proprietary to its system, which is safe for the environment and user. It eliminates concern if it is exposed to the local ground or water. Less mess, less clean up, *The BIG GREEN MEN System* uses on average about 90 lbs of media material per hour. Compared to traditional sand blasting at 2000 lbs an hour, clean up can be completed in a fraction of the time.

Versatile

The fact that *BIG GREEN MEN System* uses extremely low pressure; it can gently strip and clean many surfaces such as fiberglass, aluminum, wood and other soft surfaces of paint, varnish and other coatings without damaging the original surface. It also has the unique ability to blast over hydraulic lines and rubber gaskets without damage during the cleaning and removal process.

AMAZING RESULTS!

BIG GREEN MEN System is a unique low pressure cleaning and stripping process using only environmentally friendly media, and by introducing heat in to the process, we have the ability to achieve maximum performance at minimum pressure, cleaning almost any surface without damaging it.

Why Use *The BGM System*?

- *The BIG GREEN MEN System* cleaning technique has proven itself to be the most advanced, versatile, safe, efficient and effective system for the removal of a wide range of coatings, from a variety of

surfaces.

- This cleaning method uses only 'environmentally friendly' media; there are no chemicals involved whatsoever!
- Protected by USA, UK and various other world wide patents, this heated low pressure cleaning technology continues to remain the #1, environmental friendly, blasting and cleaning method.

What Surfaces Can the System Clean?

SANDSTONE • LIMESTONE • BRICK/MASONRY • CONCRETE • GRANITE • MARBLE • CERAMICS • TERRACOTTA • ALUMINIUM • BRASS • MILD STEEL • STAINLESS STEEL • FIBREGLASS • PLASTIC • WOOD • PAPER

What Materials Can the System Remove?

Dry Chewing Gum, Grime, Graffiti, Soot, Roof Fall-out, Mold and Mildew, Dry Paint, Barnacles and other Marine Growth, Marine Anti-foul coatings, Varnish, Black Tar, Rust, Lead Paint Coating, Oxidations, Scale, Iron Salts, Biological Contaminations, and Efflorescence's, while leaving no damage or embedment within the surface being cleaned. This cleaning method has even removed 'print from paper'.

Is the System Environmentally Friendly & Safe?

Yes... we use no chemicals and our recommended formula is non-toxic, which can be disposed of readily. Dust levels are suppressed within the vaporized elements, therefore allowing this extremely low-pressure cleaning method to be used safely within heavily populated urban areas and enclosed environments.

Where is the System Used?

BOAT MARINAS • NAVAL DOCKYARD • ARMED FORCES • COMMERCIAL SECTOR • NATIONAL TRANSPORT • LOCAL

AUTHORITIES • CITY COUNCILS • HIGHWAYS DEPT. •
RAILTRACK • WATERWAYS • HERITAGE TRUSTS • STATELY
HOMES • HOUSING ASSOC. • HISTORIC RESTORATION •
POWER AND WATER TREATMENT PLANTS • PRIVATE SECTOR

How efficient is the System?

After a short set up time, procedures are fast, surface cleaning speeds are rapid therefore cost effective. Operatives have a good all round view of the surface during the cleaning process, thus enabling the achievement of an even textured finish.

"Because of the accuracy, speed and cleanliness of the system, there is little or no disturbance to adjacent buildings, equipment or to the general public. Project start to finish times are cut in half and *The Farrow System* combined with *BGM Green Clean™* uses 50% - 80% less media than conventional sand blasters."

GRAFFITI REMOVAL

"Woodland park Zoo Mural Being Restored" "June 20th, 2008 - It took 10 minutes and a patented spray-washing method to give the city of Seattle hope that a beloved neighborhood mural its maintenance workers accidentally painted over can be saved." – King 5 News





The BIG GREEN MEN System offers the safest, fastest and most environmentally friendly graffiti removal solution in the world. It effortlessly removes graffiti paint from virtually any surface in seconds without the use of chemicals or contamination. *The BIG GREEN MEN System* does not harm protective coatings on brick or the mortar between blocks. *The BIG GREEN MEN System* also removes graffiti paint from highways, bridges and road signs while acting as a proven deterrent against future graffiti 'tags'.





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The following details some of the unique uses for The **BIG GREEN MEN** System.

RESTORATION

*The **BIG GREEN MEN** System's* versatility enables it to be your complete restoration solution. Whether you are removing decades of grime from historic brick fascias or wax and stain from oak floors and doors, our patented technology gently uncovers the hidden beauty in every restoration project – outdoors or indoors.



Removal of virtually any coating, from any surface.



Road Markings



Wooden Beam



Brick



Family Heirlooms



Priceless Antiques



Monument Restoration



Historic Homes



"Scientific tests have shown that the heat incorporated with *The BIG GREEN MEN System* enhances the speed and precision of the cleaning process. *The BIG GREEN MEN System* can be used inside or outside with minimal disturbances to surrounding areas."



Marine Application



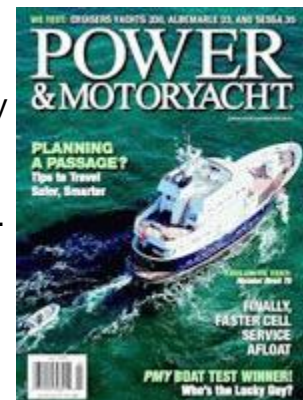
Bare Her Bottom

By Mike Smith

When it's time to strip, find a way to do it gently.

Eventually the day will come when you have to bare your bottom. No, I don't mean your college reunion or Mardi Gras — I'm talking about stripping your antifouling paint, taking your boat's bottom down to bare surface to prep for fresh primer and paint, to find and repair blisters, for surveying, etc. Unless you are a masochist of Herculean proportions, stripping paint, bottom or otherwise, is best left to the yard. Most yards won't let you do your own bottom work anyway, for environmental and economic reasons, so your job is to choose the best method, then find a yard that uses it.

There are three ways to strip your bottom. Aggressive methods like sandblasting can damage the gelcoat, possibly leading to osmosis problems later on; it takes a skilled hand to blast a fiberglass boat safely. And the sand creates hellacious dust and finds its way into everything within sight. Chemical stripping is messy and poses a clean-up problem but is okay for relatively small projects. Modern chemical strippers are less noxious than the old-fashioned kind—for example, Soy Solvents makes Soy-Strip from 100-percent American-grown soybeans—but smart workers still wear breathing and eye protection. Scraping is not worth considering, unless somebody's paying you by the hour to do it rather than the other way around. (Sanding paint off? For-get-about-it! Life's way too short.)





Blasting is the most effective, most economical way to remove antifouling; its how most yards do it. But instead of sand, modern blasters use biodegradable media that are environmentally friendly and easy to clean up—even such unlikely materials as baking soda are used (see "Green Machine," April 2004). I like the **BIG GREEN MEN** System, a patented method using proprietary organic media—natural volcanic pumice the company calls Green Clean and hot water at low pressure. When workers needed to strip red-lead from the deck of H.M.S. Victory, the most cherished ship in the Royal Navy, they chose the **BIG GREEN MEN** System, which is enough endorsement for me.

During application, Green Clean absorbs the water propellant, so there's no dust, and cleanup is easy—just sweep up the damp residue. The system is so clean it can be used indoors and so gentle it can strip varnish without damaging the wood underneath. Four grades of Green Clean can handle everything from stripping furniture or cleaning smoke damage to blasting away graffiti, road markings, and barnacles from steel hulls. Removing antifouling is a snap, and the gelcoat is left paint-ready. According to Rick Halliday, service coordinator at Cardinal Yacht Sales and Service in Somers Point, New Jersey, the **BIG GREEN MEN** System "doesn't make a mess, doesn't destroy the boat." He's tried all the other stripping methods—dry sand, wet sand, walnut shells—but says, "The Farrow System is the best we've ever had."

Foul Anti-Foul

Bottoms up boaters!

Starting on January 1st, 2008, the IMO's zero-tolerance ban on Tributyltin (TBT) will be in effect. Prior to 2003, the biocide TBT was a common additive to antifouling, keeping legions of hull growth at bay. Unfortunately, as TBT leached out of the antifouling, it settled on the seabed, where it continued to be effective at suppressing life. High levels of the toxin were found throughout the aquatic food web, including inside the carcasses of poisoned dolphins and otters. And although the effect on these environmental poster-children was grim, TBT's imposition on one mollusk, called the dog whelk, was...let me just say, disturbing: "TBT causes dog whelks to suffer from imposex: females develop male sexual characteristics such as a penis. This causes them to become infertile or even die. In severe cases males can develop egg sacs."

Although an IMO ban on applying TBT to vessels has been active since 2003, the upcoming 2008 ban will go further, requiring any vessel with TBT in its antifouling to have its bottom either sealed with an approved sealant or stripped and repainted. Vessels over 24 meters (~79 ft) and under 400 gross tons will be required to have both a TBT-free antifouling certificate and documentation of the work (ie: a paint receipt, etc.)

The European Union has surpassed the IMO's ban with even stricter legislation; if your vessel attempts to voyage through European waters without TBT-free antifouling, she may be subject to a fine and will not be allowed to enter any port.

Even without Europe on your itinerary, if your vessel's bottom has not been repainted in the past 5 years, it's time to adjust the lift's slings for a haul-out. As you open your wallet to purchase the updated paint, just remember this: an androgynous whelk is a friend to no man.



Removing barnacles, bottom paint, anti-foul paint and varnishes from boat and ship surfaces can be a time consuming and tedious job. Projects that used to take up to a week can now be accomplished in under one day. **BIG GREEN MEN** System is your safe, fast and cost efficient remedy for cleaning fiberglass, plastic, steel, teak decking and numerous other marine surfaces.



Removes build up on propellers and shafts, without disturbing the harmonic balance.

Pontoons & Pylons - Great Barrier Reef Marine Park

BIG GREEN MEN System has been used to clean debris and detritus from jetty pylons and pontoons within the confines of the Great Barrier Reef Marine Park and has ongoing approval to operate in this sensitive area.

Alternative blasting systems and their associate health and environmental issues have been banned from working on Hamilton Island. It is likely too that this ban will encompass an ever widening area as the capability of **BIG GREEN MEN** System is realized.

Mining Equipment

Mining companies can now restore heavy machinery without the need to strip the equipment down prior to blasting. Painted components can be either stripped back to bare metal, or given a light blast in preparation for recoating, without removing hydraulic hoses and other componentry. A full strip down of the equipment is no longer required offering an economical alternative to the complete re-build.

Time savings using this method mean that, from the point of view of the mining company, equipment is not lying idle. In addition, companies tendering on such refurbishment work can be extremely competitive by utilizing *The Farrow System*.

Workplace Health and Safety Officers love this system. The risk associated with grit blasters or high pressure water jets are gone. *The Farrow System* can be operated safely in closed environments and in close proximity to other personnel.

Environmentally Sensitive Cleaning



Many major cities around the world are using **BIG GREEN MEN System** because there is no pollution or contaminants emitted with our cleaning process. Where complete containment of cleaning residuals

is required in an environmentally sensitive setting, our organic *Green Clean*™ media safely confines waste particles and greatly reduces clean up costs.

We use no chemicals and our recommended formula is non-toxic, which can be disposed of readily. Dust levels are suppressed within the vaporized elements, therefore allowing this extremely low-pressure cleaning method to be used safely within populated urban areas and enclosed environments.



AVIATION

Airline Coating Removal & Maintenance.

Easily removes all types of paint, while leaving the substrate profiled for paint, and unlike other "high pressure" cleaning methods, will not warp metals via heat transfer of the cleaning media.

Varnishes, glues and other difficult to remove coatings, are simply brushed away layer by layer, in a fraction of the time it takes current removal techniques.

"Because of the accuracy, speed and cleanliness of the system, there is little or no disturbance to adjacent buildings, equipment or to the general public. Project start to finish times are cut in half and The *Farrow System* combined with *BIG Green MEN Clean* uses 80% less media than conventional sand blasters."

BIG GREEN MEN System is a unique low pressure cleaning method using only environmentally friendly media and by introducing heat in to the

INDUSTRIAL SURFACE CLEANING



Time savings using this method mean that, from the point of view of the company, equipment is not lying idle. In addition, companies tendering on such refurbishment work can be extremely competitive by utilizing **BIG GREEN MEN SYSTEM** Workplace Health and Safety Officers love this system. The risk associated with grit blasters or high pressure water jets are gone. *The BIG GREEN MEN System* can be operated safely in closed environments and in close proximity to other personnel.



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The Dry Ice Jet Blaster

For cleaning, stripping and restoring of interiors for example; fire place, wood beams, wood and wrought iron stairway railings, iron window and entrance gates, kitchen hoods, A/C handlers, wood floors, antique doors and trim, the *Dry Ice Jet Blaster* is the newest technology available. No other system today has the ability to strip and clean without the mess of sand and water left behind by other cleaning systems. Using dry ice as our source of cleaning media, surfaces are gently blasted at 110 degree below zero. Water instantly evaporates. The only waste produced is the surface coating being removed. There is no secondary waste to clean up or contaminate the work area.

In Marine and Aviation; engines, engine rooms and interiors are safely degreased and stripped away of mold, paints and other coatings without damaging rubber gaskets, controls, electrical and non water resistant equipment.

For auto and truck restorations, steel and fiberglass surfaces are gently stripped of paints and primers leaving only the original bare surface. Steel, chrome and aluminum surfaces are left clean. With the *Dry Ice Jet Blaster* there is no need to deal with toxic and messy chemical strippers and abrasive sand blasting.

In commercial applications, the *Dry Ice Jet Blaster* cleans and restores operation of printing presses, food grade processing equipment, conveyor belts, greasy kitchens, refrigerators, floors, and much more without the damage and mess of water and toxic chemicals.

The *Dry Ice Jet Blaster* is without a doubt the only solution when it comes to interior cleaning and refinishing.

BIG GREEN MEN. is the answer to all your surface cleaning, stripping, preparation and restoration needs.

We provide cleaning solutions for...

- **Commercial and Retail Shopping Centers**
- **Residential**
- **Historical Restoration**
- **Sports Centers**
- **Airports**
- **City, County, and State Parks**
- **DOT**
- **Marine**
- **Automotive**
- **Aviation**
- **Industrial**
- **Construction**
- **Roofs and Pools**
- **Food Industry**
- **Mechanical and Electrical Equipment**
- **Power Propulsion Engines – Turbines, Electric, Diesel, Gas**
- **Refrigerant & Cooling Systems**
- **Mold and Mildew Removal**

For information and a free service quotation, please call;
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