See video and industry-specific information, visit us online at www.spongejet.com
Not Protecting What’s Important Can Cost Millions.

Conventional abrasive blasting methods cost companies millions of dollars every year:

**Hazardous Emissions**
Elevated levels of toxins, arsenic and heavy metals in all trades have been linked to abrasive blasting activity. Sponge-Jet’s Micro-Containment technology captures up to 99% of these hazardous emissions, lowering worker exposure, plant liability and the costs associated with compliance, testing, litigation, treatment and long-term health care.

**Corrosion**
The cost of corrosion in the US is estimated at $276 billion per year. 90% of coating failures are attributed to improper surface preparation. Sponge-Jet allows for ideal surface preparation in the most challenging environments, extending performance of all coatings – breaking the cycle of consecutive maintenance and downtime.

**Equipment Breakdown**
Equipment breakdown can be disastrous, as instruments, electronics and rotating equipment are all susceptible to premature failure if exposed to abrasive dust or water. The Sponge-Jet technology eliminates up to 99% of abrasive dust, improving overall equipment and plant reliability.

**Eye Injuries**
Abrasives are responsible for the majority of eye injuries. In one study, abrasive blasting and related work is a leading cause of eye injuries, costing $100 million a year in the US workplace alone. Sponge-Jet does not ricochet like other abrasives, thus reducing one of the major causes of eye and other workplace injuries.

**Pollution**
Abrasives are the largest cause of fugitive emissions. In a recent shipyard study, hazardous particles (less than ten microns) cause upper respiratory problems, smog and global pollution. The Sponge-Jet technology captures up to 99% of these emissions, protecting the environment and public health.

**Downtime**
Shutdowns can cost plants more than a million per day. Those involving surface preparation are longer than necessary because mechanics, welders, electricians and other trades cannot operate near abrasive blasting. Sponge-Jet allows for faster project completion.

Sponge-Jet Protects Your Environment And Bottom Line.

The Sponge-Jet technology suppresses fugitive emissions and rebound that can lead to costly interruptions and dangerous workplace conditions.

Sponge-Jet is the world’s leader of clean, dry, low dust, reusable surface preparation media and equipment.

From delicate cleaning to selective coating removal to aggressive profiling of industrial substrates, Sponge-Jet offers a wide range of surface preparation solutions – and benefits:

Sponge-Jet’s low dust, low ricochet and recyclable process offers:

- Lower fugitive emissions
- Less worker exposure and fatigue
- Less eye and other injuries
- Enhanced visibility and first-pass quality
- Fewer defects and rework, keeping projects on schedule
- High-quality surface preparation in sensitive or confined areas
- A solution for preparing surfaces near finished coatings, instruments and equipment
- Low inbound and outbound freight
- Less pollution, waste generation, fines and reporting
- Improved community relations
- The ability for other trades to work nearby
- Less downtime, improved asset availability
- Coatings perform longer, saving on maintenance costs
- Easier staging, containment, ventilation and clean up
- Less waste, disposal and material handling
- Increased profits and production
- Reduced costs associated with exposure, plant liability and emissions lowering worker health.

The heart of the Sponge-Jet System is its Sponge Media. This technology combines the containment capability of sponge and the cleaning and cutting power of conventional abrasives.

The pliant nature of Sponge Media abrasives allow its particles to flatten on impact (fig. 1), entrapping most of what would normally have become airborne contaminants (fig. 2). This is referred to as Sponge Media’s Micro-Containment™.

The Sponge-Jet Process:

Sponge Media abrasives are available in 20 types for any application. All provide dry, low dust, low rebound blasting.

Sponge-Jet Feed Units propel Sponge Media abrasives to the surface. A centralized panel provides adjustment of blast pressure and media feed rate allowing for precise control.

Sponge Media (shown 3X actual size) traps contaminants upon impact.

Sponge-Jet Recyclers classify and clean Sponge Media abrasive for reuse. Blasted media is collected and processed through an electrostatically or pneumatically powered classifier – separating reusable Sponge Media abrasives from oversized debris, and fine waste (spent media and contaminants).

The Result?

- Greater production and efficiency
- Less liability, litigation, compliance reporting
- Improving both environmental AND corporate efficiency
- Increased profits and production
Not Protecting What’s Important Can Cost Millions.

Conventional abrasive blasting methods cost companies millions of dollars every year:

- Can Cost Millions.
- fugitive emissions and rebound that can lead to abrasive blasting activity. Sponge Media’s* entryways most hazardous emissions lowering worker exposure, plant liability and the costs associated with compliance, testing, litigation, treatment and long-term health care.
- Abrasive Blasting
- Conventional
- Not Protecting
- And Bottom Line.
- Protects Your
- methods cost companies millions of dollars every year:

Sponge-Jet Protects Your Environment

The Sponge-Jet technology suppresses fugitive emissions and rebound that can lead to costly interruptions and dangerous workplace conditions.

Sponge-Jet is the world’s leader of clean, dry, low dust, reusable surface preparation media and equipment.

From delicate cleaning to selective coating removal to aggressive profiling of industrial substrates, Sponge-Jet offers a wide range of surface preparation solutions – and benefits:

- Sponge-Jet’s low dust, low ricochet and recyclable process offers:
  - Lower fugitive emissions
  - Less worker exposure and fatigue
  - Less eye and other injuries
  - Enhanced visibility and first-pass quality
  - Fewer defects and rework, keeping projects on schedule
  - High-quality surface preparation in sensitive or confined areas
  - A solution for preparing surfaces near finished coatings, instruments and equipment
  - Low inbound and outbound freight
  - Less pollution, waste generation, fines and reporting
  - Improved community relations
  - The ability for other trades to work nearby
  - Less downtime, improved asset availability
  - Coatings perform longer, saving on maintenance costs
  - Easier staging, containment, ventilation and clean up
  - Less waste, disposal and material handling

The heart of the Sponge-Jet System is its Sponge Media. This technology combines the containment capability of sponge and the cleaning and cutting power of conventional abrasives.

The pliant nature of Sponge Media abrasives allow its particles to flatten on impact (fig. 1), entrapping most of what would normally have become airborne contaminants (fig. 2). This is referred to as 'Sponge Media’s MicroContainment™'.

The Sponge-Jet Process:

Sponge-Jet Recyclers classify and clean Sponge Media abrasive for reuse. Blasted media is collected and processed through an electrically or pneumatically powered classifier – separating reusable Sponge Media abrasives from oversized debris, and fine waste (spent media and contaminants).

Sponge-Jet Feed Units propel Sponge Media abrasives to the surface. A centralized panel provides adjustment of blast pressure and media feed rate allowing for precise control.

The Result?

- Greater production and efficiency
- Less liability, litigation, compliance reporting
- Improving both environmental AND corporate efficiency
- Increased profits and production

Sponge Media (shown 3X actual size) traps contaminants upon impact

Low Dust Abrasive Blasting with Sponge-Jet

Conventional Abrasive Blasting

Hazardous Emissions

Elevated levels of toxins, arsenic and heavy metals in all trades have been linked to abrasive blasting activity. Sponge Media’s entryway most hazardous emissions lowering worker exposure, plant liability and the costs associated with compliance, testing, litigation, treatment and long-term health care.

Corrosion

The cost of corrosion in the US is estimated at $276 billion/year. 88% of coating failures are attributed to improper surface preparation. Sponge-Jet allows for ideal surface preparation in the most challenging environments, resulting in longer performance of all coatings – breaking the cycle of corrosion, maintenance and downtime.

Equipment Breakdown

Equipment breakdown can be devastating. Instruments, electronics and rotating equipment are all susceptible to premature failure if exposed to abrasive dust or water. The Sponge-Jet technology eliminates up to 99% of abrasive dust, improving overall equipment and plant reliability.

Eye Injuries

Abrasives are the leading cause of eye injuries in the US workplace alone. Sponge-Jet does not ricochet like other abrasives, thus reducing one of the major causes of eye and other workplace injuries.

Pollution

Abrasives are the largest cause of fugitive emissions. A recent shipyard study. Hazardous particles (less than ten microns) cause upper respiratory problems, smog and global pollution. The Sponge-Jet technology captures up to 99% of these emissions, protecting the environment and public health.

Downtime

Shut downs can cost plants more than a million per day. Those involving surface preparation are longer than necessary because mechanics, welders, electricians and other trades cannot operate near abrasive blasters. Sponge-Jet allows for faster project completion.
See video and industry-specific information, visit us online at www.spongejet.com

**MARINE**
- US NAVSEA Naval Sea Standard 009-32 released that the “Sponge-Jet media and process may be used as an alternative to [abrasive blasting and power tool cleaning] to obtain SSPC-SP-10 or SSPC-SP-11 cleanliness”
- Used by Rosyth (UK), Toulon (FR), Puget Sound (US), Taicahuano (CH), Yokosuka (JP), Esquimalt (CA) and other Naval Bases
- Chosen to blast hull insides of the Chile-to-Southpole ice breaker
- Ballast tank and weldseam-approved on the world’s largest tanker;
- Four-year follow-up inspection revealed like-new coating

**OIL, GAS & CHEMICAL PROCESSING**
- Specified by PETROBRAS, ExxonMobil, PEMEX, PETRONAS
- At PDVSA’s Amuay Refinery (the world’s largest) shutdown time was reduced by 60%, cancelling two, two-month overhauls worth $960M
- PEMEX has specified to use Sponge-Jet on more than four million square meters (43 million square feet) of steel

**SURFACE PREPARATION AND COATING REMOVAL**
- Dow Chemical film polymer ducts are now prepared with Sponge Media, saving complete start-up batches of product that were formerly considered waste from coal slag contamination

**Awards and Recognition**
- Selected by NASA’s Acquisition, Pollution and Prevention office being “the superior technology” for low emission surface preparation/depainting
- Sponge-Jet was selected for use on White House buildings, the Wisconsin and Idaho State capital buildings, and National Park Service projects for cleaning and restoration
- The Carolopolis Award given to the Kahal Kadosh Beth Elohim Synagogue in Charleston, SC, USA for exterior preservation using Sponge Media
- The Stora Productivitetspriset Awarded to Skandinavisk Industri SilverHing of Sweden for productivity improvements using Sponge Media abrasives

**The Solution of Choice for any Industry or Application**
- Bridge Maintenance
- Fire Restoration
- General
- Historic Restoration
- Lead Abatement
- Marine and Offshore
- Mold Remediation
- Nuclear Remediation
- Oil and Gas
- Petro Chemical
- Power Generation
- Pulp & Paper
- Water Treatment

**INDUSTRIAL SURFACES**
- Worker Health and Safety
- Environment