

Introducing

The New Standard In Spill Recovery



Spill control, recovery and mitigation across most industries has been difficult to manage for decades due to the limited amount technology that was available. In recent years, a number of advancements have been made in the attempt to address the challenges industries face by creating products that perform better, are safer to use and environmentally responsible. This report is designed to identify the challenges industries face on a daily basis, the performance and capabilities of traditional products and how Spill Solved's performance is superior to these products.

Industry Challenges

Commercial:

Automotive Sales/Service - Fuel Transportation/Distribution - Restaurant/Bar/Grocery/Convenience
Fleet Services - Building Maintenance - Hospitality - Printing - Pet Care - Amusement/Recreation

Industrial:

Heavy Equipment Sales/Service/Rental - Construction - Tractor Trailer/Bus/RV Service - Utilities

Municipal:

Wastewater Treatment - Public Utilities - DPW - First Response - Airport/Aviation - Environmental
Safety/Highway Management - Water Filtration - Soil Remediation - Government/Military

Residential:

Home Maintenance/Garage DIY - Kitchen/Cooking Spills - Paint & Spill Clean up - Pet Odors/Stains
Landscaping/Lawn Care - Horticulture - Agriculture - Farming - Potting/Soil Conditioning

Each business within these industries have several different types of challenges to manage. Some liquids are more difficult than others to clean up. However, they all have the same common problem when it comes to the type of products they use:

- Indoor/Outdoor Product Performance
- Safety & Compliance Regulations
- Disposal Regulations
- Exposure to Liability

Products

The Most Common Types of Products Being Used:

- Diatomaceous Earth products (commonly referred to as kitty litter or clay)
- Sawdust - Coconut Fiber - Peat Moss - and other organic materials
- Perlite - Zeolite - Vermiculite - Synthetic and other manufactured materials
- Cloth Mats and Oil Absorbing Socks/Pillows/Pads- commonly referred to as "Pig Mats"
- Floor Cleaning Machines or Industrial Moppers - commonly referred to as a "Zamboni"

Industry Challenges

Problem: Toxicity

- Kitty litter type materials contain a highly toxic substance called Crystalline Silica. CS is a known carcinogen which has been determined by OSHA to cause Silicosis, an incurable lung disease that can lead to disability and death, Lung Cancer, Chronic Obstructive Pulmonary Disease (COPD) and Kidney Disease. According to OSHA, it is extremely harmful to humans when exposed to more than 10 Micrograms (0.0000011 of a pound) and it is banned in several states. Read 29 CFR Parts 1910, 1015 and 1926.

Solution:

- Spill Solved is 100% non-toxic, inert and does not contain crystalline silica or any other toxic ingredient. It is not regulated by OSHA or the EPA, and there are no respirable or ingestion hazards. It is completely safe for use around humans, food, animals and the environment.

Problem: Effectiveness

- These products take time to work and do very little to absorb liquids. In fact, they are considered Adsorbents which is different from an Absorbent. An adsorbent does not hold liquid and will quickly release what it has collected. For this reason, they are not safe for landfill disposal and must be treated as hazardous waste. This increases costs and is not environmentally responsible.

Solution:

- Spill Solved works immediately and can be reused multiple times. It will fully encapsulate the liquid. It cannot release those liquids back into the environment and it is safe for non-hazardous landfill disposal. This can result in a significant reduction in waste generation and can also reduce liability in several ways.

Industry Challenges

With kitty litter and clay-based products

Problem: Liability (Slip-and-Fall)

- Kitty litter and clay-based products tend to leave an oily sheen or slipper surface behind. This increases liability risk such as slip-and-fall hazards. Often times, a second application is needed, or further wiping or mopping is necessary to make the area safe for foot or vehicle traffic.

Solution:

- When used as directed, Spill Solved does not leave a slippery surface. There is no need for additional wiping or mopping and only one application is needed. The area is immediately safe for foot or vehicle traffic. This can greatly reduce liability and keeps the workplace safer.

Problem: Liability (Flammability & Ignitability)

- Kitty litter and clay-based products can be highly flammable and/or combustible. This can be a liability concern when the material is being used around open flames, where there may be metal grinding, welding or other conditions where sparks may be generated. There are a number of documented cases where an entire building has been lost due to a fire that was created by an absorbent material combusting while being stored for disposal. This can happen when the material is being stored in the same waste drum as oily shop rags.

Solution:

- Spill Solved is non-flammable and non-combustible. Because it encapsulates the liquid, it will significantly reduce the risk of combustion and is much safer to store for reuse or disposal.

Problem: Service Request, Storage, Packaging, Product Loss

- In general, due to their lack of performance and absorption capacity, a large amount of these types of products need to be kept on-hand or re-ordered frequently. This impacts valuable resources such as labor, material handling, storage space and other costs. Usually, these products come in bags that often get wet, rip open and lead to product loss.

Solution:

- Spill Solved is conveniently packaged in heavy-duty containers. They are made from 75% recycled plastic and are BPE free. They are designed to fit in the storage compartment of most commercial vehicles. Because Spill Solved is reusable and has a significantly higher absorption capacity than other products, there are less service requests and it uses much less storage space. Our containers have a dual-spout opening and are very convenient for rapid-response use.

Industry Challenges

With Perlite, Zeolite, Vermiculite, Coconut Fiber, Sawdust, Corn-Cob, Peat Moss & Synthetics

Problem: Performance

- Generally, these products are too difficult to use outdoors. They tend to be very light and will blow away with the slightest wind before they reach the ground. When used indoors, the same problem exists if there is a shop fan running. Common complaints are the material will become airborne and get into the user's eyes causing irritation and other possible health hazards.

Solution:

- Spill Solved is purposely formulated for indoor/outdoor use. It is a very dense and heavy mineral and will not blow away in the wind or near a shop fan. It is also formulated to generate very little dust, which is classified by OSHA as nuisance dust only.

Problem: Liability (Flammability & Ignitability)

- For the same reasons that are described in kitty litter and clay-based products. These materials are also flammable and/or combustible. In general, the perlite, vermiculite and zeolite products are not flammable before being used, but most likely will become flammable after use. Coconut fiber, sawdust, corn-cob, peat moss are flammable before and after use.

Solution:

- Spill Solved is non-flammable and non-combustible. Because it encapsulates the liquid, it will significantly reduce the ignitability hazard.

Problem: Packaging, Service Requests, Storage.

- For the similar reasons described in kitty litter & clay, due to their lack of performance and absorption capacity, a large amount of these type of products needs to be kept on-hand or re-ordered frequently. This impacts valuable resources such as labor, material handling, storage space and associated costs. Usually these products come in bags that often get wet, rip open and lead to product loss. Because these products are very light, they take up much more space.

Solution:

- In addition to our packaging as described above, the density of Spill Solved saves valuable space. For example, a 3-pound container of Perlite will hold 15 pounds of Spill Solved.

Industry Challenges

Cloth "Pig" Mats, Socks, Pillows, Pads

Problem: Performance

- In General, these products only absorb certain types of liquids, require effort to use and leave a slippery residue behind. They require excessive bending to wipe up a spill, or they are left on the surface for long periods of time while it absorbs the liquid. This creates a messy, hazardous environment. Liquids commonly drip from these products and require the user to further clean the area repeatedly with more materials and generates even more waste.

Solution:

- Spill Solved works instantly and does not require time to absorb the liquid. Simply apply as directed and sweep up. The area is immediately safe and does not require any further cleaning. The material can then be placed back into the container and reused multiple times, reducing waste generation and helping to improve the user's bottom line.

Problem: Liability (Flammability & Ignitability)

- For the same reasons that are described above. These materials are flammable and/or combustible. Special safety, storage and PPE precautions are also required.

Solution:

- Spill Solved is non-flammable and non-combustible. Because it encapsulates the liquid, it can greatly reduce the ignitability of flammable or combustible liquids. Spill Solved does not require any special safety or storage precautions and PPE is not necessary.

Problems: Packaging, Service Requests, Storage. Disposal

- These products are generally ordered by the case, and often get wasted before they are fully used. Most often they are expensive to purchase and to dispose of. For the same reasons described above, they require frequent service requests, take up valuable storage space and generate excessive waste. Hazardous waste disposal cost can be very expensive and improper disposal methods can lead to significant fines.

Solution:

- Spill Solved is packaged conveniently for use and storage. It can be reused multiple times reduces waste generation, is safe for landfill disposal as non-hazardous waste and is much safer, cleaner and easier to use.

Industry Challenges

Floor Cleaning Machines “Zamboni” & Moping Equipment

Problem: Performance, Labor, Maintenance, Waste Generation and Disposal Costs

- Floor cleaning machines use water, expensive degreasers and soap. These machines do not fully dry the surface and can leave a slippery surface behind. They require a person to operate, use electricity and need regular maintenance. The liquid collected has to be emptied into a hazardous waste collection unit, which is usually pumped out by a hazardous waste collection company on a weekly, bi-weekly or monthly basis. This adds to the disposal costs and is perhaps the most costly way to manage spill recovery. Mopping up spills does not make sense, oil-and-water do not mix and adding a degreasing agent is an unnecessary and costly expense.

Solution:

- Spill Solved eliminates all of these challenges. The user can clean up a spill in a fraction of the time and with better results. When used properly, in accordance with the SDS and as directed there is no hazardous waste collection needed. The user can eliminate the need for expensive cleaning products and save on water and labor costs, increasing productivity.

Other Industry Challenges

In-ground/Above Ground Storage Tanks Removal:

- Spill Solved is a Cost-efficient method for containing excess liquid before scrapping metal.
- In a leaking tank, filling with Spill Solved can prevent hazardous liquids from getting into the soil.
- Removes odors from leaking tanks in basements and dwellings.

Septic Applications:

- As a Filter media used to trap contaminants chemicals, oils, grease and waste.
- Doubles the life expectancy of a septic system.

Marine Applications:

- Prevents spills from docks and boatyards from reaching the water table.

Pet/Wildlife Applications:

- Wildlife disasters such as off-shore oil spills. Spill Solved is a safer and less traumatizing way for wildlife to clean oil from themselves and won't harm their natural skin oils.
- Removes the smell of skunk odors from household pets.

Summary: Benefits Of Using Spill Solved

Commercial Benefits:

Restaurants/Grocery/Liquor

- Greatly reduce or eliminate the need for mopping. This saves time, money and effort. It also reduces insect problems such as flies and gnats that are attracted to standing water.
- Reduces or eliminates odors associated with grease traps, musty smells from behind the bar, wood rot and mold.
- Reduce or eliminate the need for grease trap cleaning and maintenance.
- Reduce liability such as slip-and-fall hazards. Reduce or eliminate slippery floors. Reduce or eliminate sticky floors/surfaces from liquor spills, or remove liquor stains such as grenadine.
- Eliminate tile damage caused by degreasers that ruin the grout. Reduce or eliminate wood rot damage caused by mopping under counters along base-boards.

Other Commercial, Industrial and Municipal Benefits:

Automotive:

- Most service centers have a policy to clean the area from the last job before bringing another vehicle in for work. Using Spill Solved makes this process much faster and helps improve productivity. A cleaner and safer work environment will reduce liability and help maintain compliance with OSHA regulations.

Municipal:

- Municipal Wastewater Treatment Plants have an extremely difficult time cleaning up spills of liquid polymer. Spill Solved works in a fraction of the time it takes traditional products to work.

Industrial:

- Manufacturing facilities need to limit downtime whenever possible. A leaking machine can cost an enormous amount of loss. Using Spill Solved allows productivity to continue uninterrupted until repairs can be made. Contact us to learn about our unique spill containment products.

Painting/Printing/Pressing/Screening:

- Spill Solved is incredibly effective at cleaning up spills of Oil & Latex-Based Paint, UV Ink, Dye, Stain, Thinner, Lacquer, Mineral Spirits, Toluene, Naphtha, Polyurethane, Acetone, Industrial Solvents, Acrylic Paint, Super Glue, Liquid Polymer and so much more.

Spill Solved Product Information

Performance & Packaging:

Spill Solved is formulated and packaged to meet the needs of heavy industrial, commercial user's and government level contract supply. The safety of our customers, their workers and the environment is our highest priority. We do not warranty or guarantee any Spill Solved product that is used in a manner inconsistent with the labeling or safety data sheet. When used as directed and in accordance with the SDS, Spill Solved is guaranteed to perform safely and effectively. If any Spill Solved product fails to perform, we will promptly replace it or refund your money.

Safety:

When it comes to safety concerns, Spill Solved can limit exposure to liabilities such as slip-and-fall hazards, OSHA/EPA regulations and much more.

- Spill Solved is 100% non-toxic and completely inert. It does not contain crystalline silica or other carcinogens and is not regulated by OSHA. It is 100% safe for use around humans, animals, food and the environment.
- Spill Solved completely encapsulates hydrocarbon-based liquids and it will not release them into the soil, streams, lakes or other bodies of water. This ability allows for it to be safely disposed in a landfill as non-hazardous waste.*
- When used as directed, Spill Solved does not leave an oily residue, slippery or sticky surface behind. The area is immediately safe for foot or vehicle traffic with no further wiping or mopping necessary.**
- Because Spill Solved encapsulates the hydrocarbon-based liquid, it greatly reduces the chances for ignitability when cleaning up flammable liquids.
- Spill Solved is non-flammable, non-combustible and non-biodegradable.

*Check federal, state and local regulations for disposal guidelines. Responsibility for proper use and disposal is on the end user.

**When used as directed and the first-time. As the material is reused, it will eventually become less effective. If a residue is noticed, add a small amount of fresh material and sweep-up. This may happen after the product has been used 4-5 times depending on the viscosity of the spill. Contact us to learn more about reusability, recovery and recycling.

Conclusion: How Spill Solved Is Different

- ✓ Spill Solved is unique and unlike any other product available
- ✓ The performance results are superior and 100% guaranteed
- ✓ Spill Solved is inert, 100% non-toxic and is not regulated by OSHA
- ✓ Spill Solved does not contain crystalline silica or other carcinogens
- ✓ Spill Solved is 100% safe for use around humans, animals, food and the environment
- ✓ There are no special PPE, safety or storage requirements
- ✓ It can be reused multiple times and is landfill safe as non-hazardous waste*
- ✓ Used material can be repurposed for beneficial use, reclaimed or regenerated*
- ✓ It does not leave an oily residue, slippery or sticky surface behind**
- ✓ It works instantly and leaves the area immediately safe for foot or vehicle traffic**
- ✓ There is no additional application, cleaning, wiping, or mopping necessary**
- ✓ Spill Solved completely and permanently encapsulates the hydrocarbon-based liquid on contact and will not release it back into the environment
- ✓ Spill Solved is non-flammable, non-combustible and non-biodegradable
- ✓ Works on any type of liquid and most semi-liquids with the exception of hydrofluoric acid
- ✓ Spill Solved is a heavier and more dense mineral than perlite and will. Not blow away in the wind, or be carried away by rain water
- ✓ Our containers are very durable, made from 75% recycled plastic and they are BPE free. They are designed to fit conveniently in the storage compartment of most commercial vehicles and hold enough material to contain a significant size spill
- ✓ All Spill Solved products are made in the USA and come with a 100% performance guarantee.

For more information on how Spill Solved can help you improve your workplace safety, compliance, conditions and bottom line, please contact:

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