

BIO-DRY®

A L W A Y S G R E E N - N A T U R A L L Y C L E A N

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why look like this . . .

when you can look like this!

THE SUSTAINABLE WATERLESS CONCRETE CLEANER!

PARKING STRUCTURE • PARKING SPOTS • SERVICE STATION
EXTERIOR GARAGE • AIRPORT • FAST FOOD DRIVE THRU • BANK DRIVE THRU

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THE ISSUE:

Washing grease, oil, gasoline, anti-freeze or any other contaminants into the storm drain has damaging effects on our Eco-system. Pressure washing any detergents, degreasers and even bio-degradable agents, used to clean these fluids, into the street and subsequently into the storm water system has become illegal.

Studies have shown that water acts as a catalyst for these agents causing toxic build up. The Federal EPA has written pages of mandates and regulations against such activity. State and local authorities have also incorporated these laws to stop contaminants from entering state waters. The E.P.A. on federal, state and local levels is enforcing these laws with large fines on those who disregard them. These regulations can be seen on the EPA web site at www.epa.gov. Another issue is the use of water. In many states water has become a precious commodity. Conservation of water is becoming mandated and also governed by fines if misused.



It is ILLEGAL to wash any oil, gasoline, antifreeze, detergents etc. into the storm drain.



SERVICE STATIONS



DRIVE THRU



PARKING STRUCTURE



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THE BIO-DRY® CONCEPT

Traditional methods of cleaning concrete and asphalt incorporate the use of detergents and degreasers along with power washing.

The same molecular chemistry methods used to dry clean clothing and fibers is now available for cleaning concrete and asphalt. **BIO-DRY®** incorporates this technology to break up and reduce the binding capacity of contaminants. Through the processes of absorption, emulsification, and bioremediation, **BIO-DRY®** cleans these surfaces effectively and legally.



***Completely Compliant, Cost Effective,
Environmentally Friendly, Uses No Water!***

THE BIO-DRY® SOLUTION

BIO-DRY® works by cleaning oil and grease from the surface by molecularly deactivating harmful hydrocarbon chains. **BIO-DRY® is a powder compound that is applied dry without the use of water.** Bio-Dry's natural absorbents hold contaminants while they are molecularly broken down. Contaminants are reduced to organic compounds such as carbon dioxide, water and fatty acids. The process of emulsification and bioremediation work together to clean the affected surface.

The result is a clean and appealing surface without discharging illegal pollutants into the storm drain and State waters. The surface stays cleaner, looks better and lasts longer due to Bio-Dry's unique cleaning characteristics.



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HOW BIO-DRY® WORKS

Concrete is a porous material and when pressure washed the open pores are left subject to recontamination. Not only does this create hazardous waste water, but the stain remains. The next drop of oil soaks back into the surface and you are exactly where you were in the beginning (stained and dirty).



BIO-DRY® WORKS IN 3 WAYS

1) BIO-DRY ASBORBS AND CLEANS

Bio-Dry is a powder therefore it gets into the pores of the surface and vigorously attaches to any moist contaminants. Once **BIO-DRY®** attaches to oil, anti-freeze, gasoline and other contaminants the cleaning process starts.

- a.) Emulsification. During this process oils are reduced to soluble solutions; similar to cleaning dishes with dish soap. The oils binding capacity is reduced through mild wetting agents. Bio-Dry is a blend of natural occurring ingredients to insure a safe and effective product that meets environmental standards.
- b.) Bioremediation. The second chemistry involved is the process of bioremediation or the use of micro organisms. Micro organisms come in many forms such as bacteria, yeast and fungi. Specific micro organisms are used in **BIO-DRY®** that eat harmful chemicals and turn them into less toxic or non toxic by products such as Carbon Dioxide, Water and Fatty Acids. These microbes remain dormant until they come into contact with moisture and food, there by enabling them to digest the contaminants and grow. Once the food source is gone they become inactive again. **BIO-DRY®** continues cleaning long after application.

2) BIO-DRY PROTECTS

BIO-DRY® is a very fine powder, so it leaves a residual coating on and in the pores of the surface. **BIO-DRY®** protects the surface from the next oil drop by absorbing it before it can soak into the surface. Therefore, the surface is being cleaned prior to the next application. Instead of the existing stain enlarging it is reduced and lightened. Cleaning with **BIO-DRY®** consequently lasts longer than traditional cleaning methods.

3) BIO-DRY COVERS

BIO-DRY® is a powder so it also covers. As with painting a house, **BIO-DRY®** covers stains and discoloration on the surface. Bio-Dry's ingredients are blended to match and enhance the color of concrete and asphalt. This appearance lasts for a substantial period of time after application.



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HOW TO USE BIO-DRY®

Application procedures are simple and easy.

TOOLS

BIO-DRY® is applied with a fine bristle broom. Specific types of brooms are an important part of correct application and are available through J & J Marketing. Other tools include scrapers, wire brushes, a sweeping broom and leaf blower.

CONDITIONS

BIO-DRY® can be applied at any time of the day or night or at any temperature. Hot or cold conditions do not affect its performance. Surfaces need to be dry and free from heavy build up. Any standing water, oil, anti-freeze, mud etc should be removed prior to application.

The two following conditions should be avoided:

- 1) Because **BIO-DRY®** is a fine powder, extremely windy days can cause the product to become air born. Though it is not dangerous, substantial product loss occurs and adequate absorption does not take place due to the wind.
- 1) Surfaces should not be wet when **BIO-DRY®** is applied. On days when rain or heavy moisture is present **BIO-DRY®** should not be applied. Once **BIO-DRY®** is applied, however, it attaches to any contaminants and does not wash off easily. **BIO-DRY®** continues to clean after rain has run off of it.

COVERAGE RATES AND SURFACES

Bio-Dry Concrete cleaner coverage rates can vary due to surface conditions. Average coverage rates are 1lb covers 300 to 400 sq ft.

Surfaces that are sealed or have glossy finishes will not hold the product as effectively. On these surfaces, Bio-Dry will still attach to any contaminants and work on them, however it will not get into the pores of the surface.

Asphalt is different in that it contains a lot of oil and tar. This surface can not be pressure washed due to the fact that it pits and breaks up. Bio-Dry Asphalt Conditioner protects and conditions the surface by reducing the damaging affect of automotive fluids. Parking spaces, drive-thru's and spill areas are generally the best target application areas.





ALWAYS GREEN - NATURALLY CLEAN

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CONCRETE



ASPHALT

**THE SUSTAINABLE
WATERLESS CONCRETE CLEANER!**

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