Outstanding Features and Benefits of Soil-Sement®:

• Nearly eliminates particulate matter (PM10 and PM2.5).
• Does not contain any detectable polycyclic organic matter (POM) which includes polynuclear aromatic hydrocarbons (PAH).
• Is environmentally safe, non-toxic, non-corrosive, non-flammable and does not pollute groundwater.
• Has a cumulative effect and creates a stabilized surface which will resist shifting, breaking up or sink failures.
• Offers maximum weatherability to wind, rain, ultraviolet light and other weather conditions.
• Increases load-bearing strength of all types of soils and surfaces.
• Prevents water from seeping into and destabilizing the surface.
• Dries clear, providing an aesthetically pleasing appearance.
• Meets air, water, groundwater and stormwater compliance.

Soil-Sement® is an environmentally safe, advanced powerful polymer emulsion that produces highly effective dust control, erosion control and soil stabilization. Soil-Sement® provides excellent bonding, cohesion, versatility, cost-effectiveness, environmental compliance and superior overall performance.

Soil-Sement®’s effectiveness results from the length and strength of its unique polymer molecule formulation and those polymer molecules’ ability to bond with the surface materials. Its chemical structure is made of molecules attached in relatively straight-linked chains and then cross-linked among other chains or grids that may be 1,000,000 molecules long. It is a true giant compared to the much smaller molecular structure of oil, calcium, petroleum resin and asphalt emulsion products, which range from 100 to 10,000 molecules. As a result, Soil-Sement® can be as strong as steel or as resilient as rubber.

Soil-Sement® is the cumulation of 24 years of focused research and development, and unparalleled concentration on PM10, PM2.5, erosion control and stabilization solutions. It yields proprietary one-of-a-kind polymer chemistry manufactured to rigid quality standards utilized in combination with field experience in all industrial, commercial and municipal environments. The result is a performance and value combination that is unequaled by other chemical and polymer products. As a result Soil-Sement® has been the standard of comparison for all chemical types, including polymer products, since its introduction in 1978. Especially today Soil-Sement® exemplifies the fact that all polymers are not made equal.

A Soil-Sement® treated surface will provide you with optimum performance 365 days a year!
Manufacturing Capabilities
We operate over 160,000 square feet of manufacturing and warehouse facilities in our Canton, Ohio location, with satellite operations located across the United States, Canada and Europe. We provide a complete research and development lab giving us total control over the formulation, manufacturing, quality and distribution of all of our products. Midwest’s quality manufacturing process is designed to meet the criteria of ISO-9001.

Complete Customized Selling
We work with each customer to develop a customized dust or erosion control program that addresses your specific needs and requirements. Complete location surveys, soil evaluations, review of state and local air quality regulations, and other critical data are all combined as part of our detailed proposals and control plans. This determines the products, services, equipment, personnel, application schedules and budgets needed to do the job right.

Turn-key Applications
We offer complete turn-key application services. We serve our customers with a full-time fleet of properly equipped spray trucks and operators who are highly trained and professionally qualified. We provide field application services 24 hours a day, 7 days a week. Our central dispatch center maintains constant communications with the field operators for prompt routine service and immediate response to any emergency situation.

Recordkeeping and Reporting
We collect site, product, and application specific data in the field and create required daily reports which form the basis for the comprehensive, self-monitoring program needed for air quality compliance. Our administrative staff compiles required records of your dust and erosion control program and issues detailed quarterly and annual reports. These reports are prepared for presentation to state regulatory agencies for compliance with Title V certification provisions of the Clean Air Act and each state’s air quality regulations.

Since 1975, Midwest Industrial Supply, Inc. has built a reputation of leadership through products and services that continually redefine dust control, erosion control and stabilization technology. Our customers expect products that deliver real benefits, with performance far superior to other types of products being used today.

Our advantages include a full on-site laboratory with the latest state-of-the-art equipment. We also have a group of dedicated, experienced professionals who are always ready to assist you with all of your dust control, erosion control and stabilization needs.

Soil-Sement® as a dust suppressant, in accordance with the manufacturer’s instructions, will result in a significant reduction of PM10...
Midwest Industrial Supply, Inc. has over 28 years of experience in the manufacturing and application of dust suppressant formulation. Our extensive research and development has resulted in products that are on the cutting edge of performance and environmental technology.

Through the years Midwest Industrial Supply, Inc. has voluntarily sought and received third party verification of its stewardship...CalCert, California Air Resources Board (CARB), USEPA ETV, Canadian ETV and numerous testing and research projects — just a few of which are mentioned in the pages of this brochure.

We provide the following services so that your organization will avoid violations:
- Maintain records to document the dates of active operations, all applicable fugitive dust source types and the action taken.
- Retain such records for a period of at least 6 months.
- Provide trained on-site Dust Supervisors, as required by the South Coast Air Quality Management District.
- Make such records available to the Executive Officer upon request.

**Fugitive Dust Emissions Control Plan**

Regulatory agencies require operations to submit Fugitive Dust Emissions Control Plans so that the amount of particulate matter carried in the surrounding air as a result of man-made fugitive dust sources meets opacity, wind conditions and control efficiency requirements.

Midwest has Fugitive Dust Emissions Control Plans that are detailed to demonstrate the applicable Best Available Control Measures or Reasonably Available Control Measures that will be utilized and/or installed during all periods of active operations.

**Fugitive Dust**

We are pleased to introduce SOIL-SEMENT® as the only choice used for all construction situations. SOIL-SEMENT® is the ONLY CHOICE USED FOR ALL CONSTRUCTION! You can be both Best Available Control Method (BACM) and Reasonably Available Control Method (RACM). Now and In the Future...Leader in Environmental Stewardship Midwest Industrial Supply, Inc.

Midwest has always taken a leadership role in establishing regulatory requirements for chemical dust suppressants and stabilizers. We pride ourselves on the fact that our product line is engineered to reduce exposure to substances that cause cancer and other serious health effects...PM10, PM2.5, naturally-occurring asbestos-laden soil, radiation, PAHs, POMs, lead, ozone depletion and global warming. In other instances our products can be utilized to reduce the health hazards of heavy metals in mining and tailing operations, pesticide contamination in soils and volatile organic compound (VOC) containment in soils.

**Best Management Practices (BMPs)**

Mandatory storm water permits and management plans are being incorporated into the framework of urbanized areas, making it imperative to address water quality in all aspects of development. Professionals, contractors and end users are struggling to develop a systematic and logical method for selecting the appropriate Best Management Practice (BMP) to be integrated into the various construction phases for their projects.

**Best Management Practice** is a technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of storm water runoff in the most cost-effective manner. BMPs are designed to protect and prevent new pollution.

With Midwest Industrial Supply, Inc.’s understanding of the types of structural BMPs and how they interact with one another, we can provide guidance in obtaining the right mix for a specific site. To ensure the maximum benefit is achieved, we evaluate your site so the most effective BMP for the preconstruction, active construction and post-construction phases is utilized.

The Preconstruction phase requires a careful assessment of the specific site and a development of a clear understanding of what stormwater controls will be required by relevant stormwater regulations, local ordinances and site plan approval processes. The Active Construction Phase deals with sediment containment systems and vegetative techniques. Their roles are to create conditions for sedimentation, allowing soil particles that are held in suspension to settle. Post-construction BMPs are techniques that can be used to address flow quantity control of, and treatment for, water quality through pollution removal in wet-weather runoff.

SOIL-SEMENT® is the ONLY CHOICE used for all construction phases!

SOIL-SEMENT® is also considered to be both Best Available Control Method (BACM) and Reasonably Available Control Method (RACM).
A county located in the high Mojave Desert region in California initiated a PM10 Dust Control Project to evaluate the effectiveness of various dust suppressants for unpaved roadways. The evaluation was conducted under the direction of the Kern County Air Pollution Control District and coordinated through the County Waste Management Engineering Department. The products tested included a pine tar resin, magnesium chloride, calcium chloride, lignin sulfonate, petroleum resins and Soil-Sement®. Test sites were examined at 3 months, 6 months, and 12 months following application. The study found Soil-Sement® to be the product which continued to perform at the highest level of effectiveness as both a dust and erosion control agent.

Soil-Sement® preserves roadbeds and prevents potholes, washboarding, rutting, and erosion (potholes, washboarding, rutting, and areas breaking up).

• Of the products tested, only Soil-Sement® was successful in preventing roadbed deterioration (potholes, washing and rutting, and areas breaking up).
• Of the products tested, only the road segment using Soil-Sement® did not require regrading after 6 months and prior to the maintenance application.
• Only Soil-Sement® prevents washing and excessive deterioration of the road surface following bad weather.
• Only Soil-Sement® retained any practical ability for controlling dust after the 12-month period.

Soil-Sement® lasts up to six months! Midwest Industrial Supply, Inc. has the tested, certified choice to help you comply with your water and air quality regulations...the only choice...

Why Soil-Sement® Beats the Alternatives for Fugitive Dust Suppression:

As you know, there are many alternative methods of fugitive dust control. Below are just a few...

WATER
Water works well, but requires constant attention. (For example, Per Rule 403.1 of the South Coast AQMD - water must be applied at least THREE times a day when there is evidence of wind-driven fugitive dust.) In addition, water is most commonly applied by diesel-powered water trucks which themselves emit direct and toxic PM and NOx.

WASHED GRAVEL
A uniform layer of washed gravel, while controlling fugitive dust temporarily, presents numerous other problems. Traction is inadequate and tire damage can occur. Over time, dust emissions increase rather than decrease due to steady traffic breaking down the gravel. Also, gravel is fairly expensive and subject to water erosion.

PAVING
Paving, while the best long-term solution to fugitive dust control, is extremely expensive. In many applications, paving is impractical...the need may be temporary or the cost too extravagant.

Soil-Sement® is the only feasible, safe alternative to the above-mentioned methods that has been verified by numerous environmental agencies, including CalCert, California Air Resources Board and Environment Canada.

Why settle for more expensive, time-consuming methods when one application of environmentally safe Soil-Sement® lasts up to six months! Midwest Industrial Supply, Inc. has the tested, certified choice to help you comply with your water and air quality regulations...the only choice...

Soil-Sement®’s Uncompromising Reliability and Repeatability
Make it the Only Choice for Your Fugitive Dust Suppression Compliance Requirements!

The world’s leading advocates of new environmental technologies, and internationally recognized scientific and engineering evaluators of environmental performance have verified that Soil-Sement® is highly effective for controlling dust and the damaging effects of erosion and sediment pollution, while protecting the environmental ecosystem.

The staff of the internationally renowned California Air Resources Board (CARB) conducted an independent verification of the air quality benefits of Soil-Sement®. In particular, the staff of CARB determined that the use of Soil-Sement® as a dust suppressant, in accordance with the manufacturer’s instructions, will result in a significant reduction of PM10 emissions from unpaved roads without contributing to existing levels of volatile organic compounds. Upon completing its evaluation, the staff of CARB notified all air pollution control districts in California that Soil-Sement®’s air quality claims had been verified. As a result of CARB’s notification, air pollution control agencies have become familiar with Soil-Sement® and its proven air quality benefits.
Soil-Sement® does not contain detectable levels of polynuclear organic matter which includes polynuclear aromatic hydrocarbons as defined by the Federal Clean Air Act section 112 (b); nor does Soil-Sement® contain detectable levels of fluorinated or brominated compounds that could be expected to contribute to ozone depletion or global warming.”


Soil-Sement® and NPDES monitoring.
Beginning in 1975, Midwest Industrial Supply, Inc. has been proactively solving environmental problems. When used per the manufacturer’s guidelines, Soil-Sement® will help you meet your NPDES permitting requirements. Call us today!

CONTRIBUTIONS TO PHASE I COMPLIANCE BY SOIL-SEMENT®:
- Soil-Sement® will not affect pH levels. As applied, Soil-Sement® is neutral pH.
- Soil-Sement® does not contain oil or grease.
- Soil-Sement® does not contain volatile organic compounds or semi-volatile organic compounds above the regulatory levels.
- Soil-Sement®, when applied correctly and cured, will not increase BOD or COD.
- Soil-Sement® will not increase TSS (Total Suspended Solids) if applied properly. In fact, once dried and cured, Soil-Sement® will decrease the TSS.

CONTRIBUTIONS TO PHASE II COMPLIANCE BY SOIL-SEMENT®:
Technical data is available showing:
- The effectiveness of Soil-Sement® in binding naturally occurring pollutants such as metals and arsenic to the soil, making them unable to enter into stormwater runoff.
- That Soil-Sement® will prevent dust from becoming airborne and settling as sediment in stormwater runoff.

DEPARTMENTS OF TRANSPORTATION NOW RECOMMEND:
- That methods of erosion and sediment control should be considered “pay items” in the bids and specifications.
- That new road construction is usually funded approximately 80% by the federal government, and on-going maintenance is 100% funded by each state, therefore it is more economical to plan the erosion and sediment control into the initial budget.
- Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act requires that soil and sedimentation control be considered throughout the development and delivery phases of a project, including planning, design, construction and maintenance.
Midwest Industrial Supply, Inc. Receives Canadian Verification Certificate.

The Honorable Christine S. Stewart, Canadian Minister of the Environment, awarded a verification certificate to Midwest Industrial Supply, Inc. under the Environmental Technology Verification (ETV) Program.

The ETV Program promotes the marketability of companies engaged in the environmental industry by providing assessment and validation of suppliers' technology performance. At the same time, it provides buyers with the assurance that the technology in question does indeed perform as claimed.

Experiments conducted by the Desert Research Institute determine the efficiencies of dust suppressant materials on unpaved public roads and unpaved shoulders along paved roads.

In an initial survey, more than 60 specific suppressant products were identified. These fell into categories of:

1) salts
2) asphalt or petroleum emulsions
3) emulsions of other materials
4) polymers
5) surfactants
6) bitumens
7) adhesives
8) solid materials, fibers and mulches
9) hydrosed vegetation
10) miscellaneous products

Conclusions were drawn with respect to:

1) efficiency and durability of each suppressant
2) fugitive dust emission rates
3) zones of influence of fugitive dust emissions

For the unpaved roads, PM10 was measured upwind and downwind of each test section. For the unpaved shoulder study, in addition to upwind and downwind measurements, instantaneous measurements from light scattering and turbulence sensors were made. The efficiencies of Soil-Sement* exceeded 80% on average, during the final measurement period, 12 months after application. Of all of the other commercial products tested, the maximum efficiencies after a 12-month period amounted to no more than 49%.

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**PM10 Suppression Efficiencies for each Test During Three Intensive Monitoring Periods**

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*Biocatalyst stabilizer (EMC2, Soil Stabilization Products).
Petroleum emulsion with polymer (CoherexPM, WITCO).
Non-hazardous crude oil mixture (WSPA).
*Negative values denote emissions greater than the untreated section.

SOIL-SEMENT® DEMONSTRATION
Fresno County Road Shoulder Stabilization

The San Joaquin Valley has one of the worst air quality problems in the nation and is one of a few areas of the country classified by the USEPA as a serious non-attainment area for the federal particulate matter air quality standard (PM10). In response to the severity and longevity of the Valley’s PM10 air quality problem, the USEPA found the Valley’s PM10 non-attainment area plan deficient and required the San Joaquin Valley Air Pollution Control District to revise its plan and commit to the rapid development and implementation of Best Available Control Measures (BACMs).

For this demonstration the Fresno County Department of Public Works wanted to compare Soil-Sement® to slow cure asphalt, SC-250. Prominent differences between the two products include:

• Soil-Sement® has no detectable emissions of VOC whereas SC-250 emits 400 lbs/mile of treated shoulder.
• Soil-Sement® is non-toxic whereas SC-250 has potential toxic and water quality implications.
• Soil-Sement® costs less than SC-250.

At slightly over 2 months after application, department personnel reported a number of complaints about SC-250 track-out, and had to return to the site and apply a layer of sand to portions of the SC-250 treated shoulders.

Soil-Sement® technology certification requires that:
• Significant reduction of PM10 emissions is verified.
• Environmental claims are verified.
• Complete evaluation and review of all test methods and protocols used to assure scientific, statistical accuracy of conclusions.
• Midwest is to continuously meet requirements for product certification to remain valid.
• Midwest can demonstrate having control over the manufacturing of the product to ensure we can consistently and reliably produce product that performs at least as well as the product used in the certification testing. Midwest’s quality system is designed to meet the criteria of ISO-9001.
• Midwest quality management practices and standards are reviewed and certified.
• Midwest user manuals and application documents are reviewed and verified.
• Midwest’s policy and procedure manual for personnel training of application is reviewed and verified.

Why Environmental Technology Verification is Valuable for You and Why Midwest Supports ETV

CALCERT INNOVATION ASSURED

"Midwest Industrial Supply, Inc. is the industry-leading manufacturer of fugitive dust palliatives that has gone through the effort and expense of having air regulatory agencies verify the effectiveness of its products. Soil-Sement® was evaluated by the California Air Resources Board and a host of other agencies and found to be a highly effective and durable dust palliative for unpaved road surfaces."

Two months after application, the Department Road Staff found the Soil-Sement® application has provided a durable and stabilized road surface and has effectively eliminated fugitive dust!

Soil-Sement® 2 months after application.

Soil-Sement® being applied.

Soil-Sement®'s Government Verifications are a Great Deal More than Meets the Eye!
This report provided the initial results of a demonstration using Soil-Sement® as an alternative to paving for fugitive dust control associated with unpaved road shoulders.

The USEPA mandated that the San Joaquin Valley Air Pollution Control District commit to the rapid adoption and implementation of Best Available Control Measures (BACMs) in order to control particulate matter. One such BACM is the paving of unpaved road shoulders. Kern County is but one of eight counties in the Air District and the total miles of road potentially subject to the shoulder-paving requirement could exceed several thousand miles at a cost in excess of $100,000,000!

Midwest Industrial Supply, Inc. proposed a demonstration to the Air Pollution Control District to evaluate the cost and feasibility of using Soil-Sement® as an interim and low cost solution to the road shoulder paving requirement. During the demonstration, Midwest Industrial Supply, Inc. stressed that the Soil-Sement® treated shoulders are expected to remain dust-free for 2 years!

Six weeks after application of Soil-Sement®, Kern County Roads Staff returned to the demonstration site and found the following results:

- The Soil-Sement® topical application provided a hard stabilized surface and effectively eliminated dust on the road shoulders.
- Soil-Sement® provides a durable surface.

One of the conclusions from this study is that shoulder maintenance with Soil-Sement® would keep shoulders in better condition, reducing the cost of shoulder paving.

### Road Shoulder Paving Costs Estimate Valley Wide

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<th>Cost/mi</th>
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### Soil-Sement® Treatment Costs on Unpaved Shoulders Valley Wide

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<td>5,833</td>
<td></td>
<td>$23,020,800</td>
</tr>
</tbody>
</table>

For approximately $116,000,000 LESS you can treat almost 3 times as many miles by using Soil-Sement® as opposed to paving!
In the most comprehensive study in the iron and steel industry performed for the United States Environmental Protection Agency, Soil-Sement® was compared to petroleum resins and asphaltic emulsions in controlled PM10 and PM2.5 testing involving unpaved roadways in the iron and steel industry. While all of the products performed at a high level of effectiveness immediately following each application, the true test came when the results were once again compared 30 days later. Soil-Sement® maintained an effectiveness rating within 10% of the initial application, while the effectiveness of asphaltic emulsions and petroleum resins dropped significantly.

6 MONTH CONCLUSIONS
- The opacity of the dust plumes generated by the convoys on the Soil-Sement® treated areas were lower than 20% as required at the property line.

12 MONTH CONCLUSIONS
- The opacity of the dust plumes generated by the convoys on the Soil-Sement® treated areas were lower than 20% as required at the property line.

POST-IMPLEMENTATION EVALUATION
- The opacity of the dust plumes generated by the convoys on the Soil-Sement® treated areas were lower than 20% as required at the property line.

• The Soil-Sement® palliative appeared to exhibit a tolerance to the type of vehicular traffic of the Main Supply Route (generally heavy vehicles with both rubber tires and tracks). At the time of the evaluation (after 1 year), the Soil-Sement® appeared to show some signs of wear but maintained its general integrity at the surface after receiving some heavy, abrasive traffic, particularly from tracked vehicles. The spalling observed appears to be predominantly from the aggregate being crushed or “popped” out of the surface, with only minor flaking of the Soil-Sement®-treated crossing.

“Implement Fugitive Dust Control Measures,” URS (formerly Dames and Moore), URS Job No.: 29679006.

“Evaluation of the Effectiveness of Chemical Dust Suppressants on Unpaved Roads,” Midwest Research Institute, MRI Document No: PB88-139936.